

**Defense Information Infrastructure (DII)**

**Common Operating Environment (COE)**

**Version 3.0**

**Consolidated Version Description Document  
for HP 10.10**

**3 January 1997**

**Prepared for:**

**Defense Information Systems Agency**



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## Forward

Version Descriptions available for the Defense Information Infrastructure (DII) Common Operating Environment (COE) Commercial-Off-The-Shelf (COTS) products do not appear in this release of the DII COE Consolidated Version Description Document. Contact the Defense Information Systems Agency (DISA) for information concerning the licensed software and supporting documentation.

**NOTE:** Contact DISA's Configuration Management for the available documentation on the DII COE COTS applications.

The DII COE Consolidated Version Description Document is part of a set of DII COE developer documentation published in conjunction with major or general releases of the DII COE (such as DII COE Version 3.0). It contains the latest information available on the date of release of this publication.

**Segment Availability:** Not all DII COE segments described in this document may be available in the referenced release of the DII COE. The information contained herein may precede the availability of certain DII COE software segments. Please visit the DISA's DII COE Home Page on the World Wide Web to obtain the most current information available and to obtain the latest available release of DII COE software segments and other related documentation required by your organization.

**DISA DII COE Home Page URL:**     <http://www.disa.mil/dii/diicoe> or  
   <http://204.34.175.79/dii/>

**Segment Documentation Applicability:** Software segments included in this document are identified by their DII COE segment release version number and/or product version number, as available. It is important to note, however, that documentation released with a given segment version may be applicable to subsequent version(s) of the same software segment. For example, the installation guide for a DII segment version 3.0.0.3 may also apply to version 3.0.0.4 of the same segment unless superseded by a new release of the documentation. Refer to the details provided in the Version Description Document (VDD) for a particular segment release and its related amendments or errata to obtain the most current information on the fixes incorporated, additional sources of information, or reference documents.

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# Part 1. Version Description for the Kernel (HP-UX 10.10)

## Version 3.0.0.5

**NOTE:** Courier font is used to indicate entries to be typed at the keyboard, UNIX commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

### 1. System Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE) will normally make available a large number of segments, not all of which are required for every application. The DII COE kernel is the minimum set of software required on every workstation regardless of how the workstation will be used. These components include the operating system and windowing services, as well as external environment interfaces. The DII COE kernel for HP-UX 10.10 includes the following components:

- `C` HP-UX 10.10 Operating System
- `C` System Administration function
- `C` Security Administration function
- `C` Runtime tools
- `C` Commercial Off-the-Shelf (COTS) software [including desktop graphical user interface (GUI) and windowing environment]
- `C` Government Off-the-Shelf (GOTS) software.

These components can be broken down into the following features:

#### Operating System

HP-UX 10.10 Operating System.

#### System Administration Function

The System Administration function is used to provide the capability to print ASCII text, select and configure printers, perform local queue management, manage print jobs, and close windows; reboot or shut down the system, mount file systems, and format hard drives; load or install segments; and change machine ID, set system time, configure a workstation as either a client or a server, set routing configuration, configure mail on a workstation, and configure Network

Information Service (NIS). The system administrator's account group sets the system administrator's environment to execute the functions listed above.

## Security Administration Function

The Security Administration function is used to set profile configuration, create or edit local and global user profiles, and create or edit local and global user accounts. The security administrator's account group sets the security administrator's environment to execute the profiles and accounts. The Security Administration function also provides a facility to update internal profile and user account data structures through command line programs.

## Runtime Tools

Runtime tools are used to support the segment installation process. The following runtime tools are included on the DII COE 3.0.0.5 kernel tape.

- C     **COEAskUser Version 1.0.0.6**—the COEAskUser tool can be called from anywhere to display a message to the user.
- C     **COEFindSeg Version 1.0.0.6**—the COEFindSeg tool returns information about a requested segment.
- C     **COEInstaller Version 1.0.0.9**—the COEInstaller tool displays a list of segments that may be installed from tape, disk, or other electronic media. The COEInstaller tool can be run from the command line, as well as from the System Administration pull-down menu.
- C     **COEInstError Version 1.0.0.6**—the COEInstError tool displays an error to the user. It can be run from the command line, but it is most often called from within a PreInstall, PostInstall, or DEINSTALL script.
- C     **COEMsg Version 1.0.0.6**—the COEMsg tool displays a message to the user from within a PreInstall, PostInstall, or DEINSTALL script.
- C     **COEPrompt Version 1.0.0.6**—the COEPrompt tool displays a message to the user and expects the user to enter a response from within a PreInstall, PostInstall, or DEINSTALL script.
- C     **COEPromptPasswd Version 1.0.0.6**—the COEPromptPasswd tool displays a message to the user and waits for the user to enter a password. It can be run from the command line, but it is most often called from within a PreInstall or PostInstall script.

- Ⓒ **COEUpdateHome Version 1.0.0.4**—the COEUpdateHome tool updates the home environment within a script file to point to where a segment actually was installed.

All of the tools can be run from the command line, and some can be run from other code using published Application Programmer Interfaces (APIs). The COEInstaller tool can also be run from the System Administration pull-down menu.

The *DII COE Integration and Runtime Specification* provides a description of these tools and their functionality.

## COTS Software

The following COTS software helps to provide the foundation of the DII COE software environment:

- Ⓒ **X Windows** Version X11R5
- Ⓒ **Motif** Version 1.2.4
- Ⓒ **Common Desktop Environment (CDE)** Version 4.0, which is used to provide windows, workspaces, controls, indicators, and a front panel to help users organize and manage work.

## GOTS Software

The following GOTS software also helps to provide the foundation of the DII COE software environment:

- Ⓒ **CSELCK (Deadman)** Version 1.0.0.1 is used to provide a screen lock capability as a security feature.
- Ⓒ **CSECON (Console Window)** Version 1.0.0.1 is used to provide a secure console window for displaying output written to `stdout`.
- Ⓒ **CSEXDM (X Display Manager)** Version 1.0.0.0 provides a secure login screen.
- Ⓒ **CSEPAS (Password)** Version 1.0.0.0 allows a user to change his or her own password and allows the security administrator to change other users' passwords
- Ⓒ **Accounts and Profiles Subsystem.**

## 2. Referenced Documents

The following documents are referenced in this Version Description Document:

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification* Version 2.0, DII COE I&RTS:Rev 2.0, Inter-National Research Institute, October 23, 1995
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Kernel Installation Guide (HP-UX 10.10)* Version 3.0.0.5, DII.3004.HP1010.IG-1, Inter-National Research Institute, December 20, 1996
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) System Administrator's Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.AG-1, Inter-National Research Institute, October 29, 1996.

## 3. Version Description

### 3.1 Inventory of Materials Released

- C Magnetic media: Two 4mm tapes consisting of a relative tar of the DII COE kernel, Version 3.0.0.5 (HP-UX 10.10)
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version Description Document for the Kernel (HP-UX 10.10)* Version 3.0.0.5, Document Control No. DII.3005.HP1010.Kernel.VDD-1, December 20, 1996
- C Hard-copy Documentation: Two hard copies of the aforementioned Version Description Document.

### 3.2 Software Changes

This is the first delivery of DII COE Kernel for HP-UX Version 10.10; as such, this delivery contains no software changes.

## 4. Installation Instructions

Reference the *DII COE Kernel Installation Guide (HP-UX 10.10)* for instructions on installing the DII COE kernel.

## 5. Known Problems and Errors

Reference Attachment 1, *DII COE Kernel Version 3.0.0.5 (HP-UX 10.10) Known Problems and Errors*, for a list software problems. In addition, reference Attachment 2, *DII COE Kernel Version 3.0.0.5 (HP-UX 10.10) COTS and GOTS Known Problems and Errors*, for a list of new COTS and GOTS software problems.

## 6. Release Notes

### COE Kernel

1. Installation of the HP-UX 10.10 Operating System is a *destructive installation* because installation removes any previously installed software. Your disk will be overwritten as part of the installation process and all data will be lost.
2. The C2 security level (auditing feature) is running automatically at installation time.
3. Only the secman and sysadmin accounts are supported when C2 is enabled. In addition, only the SSO\_Default and SA\_Default profiles are supported when C2 is enabled. Therefore, NIS is not supported when C2 is enabled.
4. To add user accounts, C2 must be disabled. When C2 is disabled, only local accounts are supported. Local profiles may be created and assigned, but accounts using these profiles will not have access to menus and icons. Reference the *DII COE System Administrator's Guide (HP and Solaris)* for information about disabling the C2 auditing feature.
5. The Security Mgr Remote application should be run only to add global accounts and profiles from client workstations when C2 is not enabled.
6. The device field pop-up for New File System does not list appropriate 10.10 devices. For HP-UX 10.10, the user must enter `/dev/rdisk/c04Xd0`, (where X is the correct device number for the system) in the `Device` field in the `New File System` window.
7. The user can only mount filesystems temporarily using Disk Manager.
8. Multi-head and multi-eye configurations are not supported.
9. DCE client has been removed from the kernel.

10. The following required drivers are not supported:

- (a) Equinox Mux
- (b) NTDS Cards
- (c) Danford Mux
- (d) P FDDI
- (e) P SICL (PIL)
- (f) MATROX/Magic Card: MAGICLIB
- (g) DCOM 2I V-5, serial comms driver
- (h) SCSI Driver for Kodak XL series (XL-7700,7800, 8100).

The following requested drivers are not supported:

- (a) M1200 - Automatic Data Translator
- (b) FW-EISA
- (c) BIT3 DSP
- (d) VXI
- (e) GPIB.

- 11. Use only the default `secman` user account provided with the kernel to add global accounts.
- 12. The printer fence should not be changed from the default of 0 on HP workstations using the System Administration Manager (SAM) tool.
- 13. Classifications cannot be assigned to profiles.
- 14. To use global profiles, the segments that are assigned the profiles must be accessible from the machine (i.e., segments must be installed on that workstation).
- 15. To use global users and profiles, the `/h/USERS/global` directory must be mounted to a common workstation.
- 16. To change the workstation classification, run the `COESecLevel` tool from the command line. Reference the *DII COE System Administrator's Guide (HP and Solaris)* for more information about changing workstation security levels.
- 17. Although `localhost` is available for selection in the Change Machine ID window, it *should not* be selected. Selecting `localhost` makes all login accounts inaccessible after the machine is rebooted. The machine must then be booted in single-user mode to correct the problem.

**COEInstaller Tool**

1. The `AcctGrp` descriptor supports only one entry.
2. The default tape drive for HP-UX 10.10 is `/dev/rmt/0mn` because HP-UX 10.10 automatically sets the default tape device to 0 (HP-UX 9.07 automatically sets the default tape device to 3).
3. If a user selects the `Other` toggle from the `Select Source` window, then “`xmn`” must be entered as the device instead of “`xm`”, where `x` is the device number.
4. The `Installation Log` only logs segment processing for the last segment(s) selected from the current installation.
5. No help options are available.
6. Disk space is not checked on `/h/data/global` when installing a global data segment.
7. NIS and Domain Name Service (DNS) servers are not updated when processing the `Network` descriptor.
8. The `$HOME_DIR` keyword in the `Requires` descriptor is not processed.
9. In order for network installation to work, the `/h/data/global` directory must be mounted to a server. If the `/h/data/global` directory is not mounted, then the `Disk Manager` must be used to mount the `/h/data/global` directory. In addition, the machine that the segments are being installed from must be in the target machine’s local host file or, if the machine is running DNS, the machine must be in the DNS file.

**COEAskUser, COEInstError, COEMsg, COEPrompt, and COEPromptPasswd**

1. The `COEAskUser`, `COEInstError`, `COEMsg`, `COEPrompt`, and `COEPromptPasswd` tools support multi-line text. The following example uses the `COEMsg` tool to show how to display text over multiple lines:  

```
COEMsg "this is line 1 \  
This is line 2 \  
This is the 3rd line"
```
2. The `COEInstError` process presently does not stop the processing of an installation. It will display an installation error message and return a -1 status code to the calling process. The calling process (i.e., `PostInstall`) must perform any cleanup to return a failed error status to the `COEInstaller`, which can then stop the installation.

## **COEUpdateHome Tool**

1. COEUpdateHome must be run from within the directory of the script that the user is trying to update (typically the segment directory).

## **7. HP-UX 10.10 Patch List**

Patch Name: PHCO\_6809

Synopsis: libc cumulative patch

Patch Name: PHKL\_6682

Synopsis: patch for process management and signals

Patch Name: PHKL\_7090

Synopsis: SCSI subsystem defect fixes

Patch Name: PHSS\_6582

Synopsis: PEX Runtime March Periodic Patch

Patch Name: PHSS\_7131

Synopsis: X11R5/Motif1.2 Runtime libs May96 Per. Patch

Patch Name: PHSS\_7227

Synopsis: s700\_800 10.10 X Server Cumulative Patch



## Attachment 1 - DII COE Kernel Version 3.0.0.5 (HP-UX 10.10) Known Problems and Errors

INRI Number Agency #	Short Desc.	Long-Description
RTO00001218	Password does not decrypt Secret Key message.	During sysadmin login, after NIS is started up, a message appears: "Password does not decrypt secret key for unix.100@test5.dii.nis." This message appears to indicate that a problem exists with the secret keys however, sysadm login does work. NOTE: Doug Ray felt that the secret key problem results from the way nisaddcred is being run and that he would provide the solution to Andy.
RTO00001219	File role_select.log not found during boot.	File role_select.log not found during boot: On the HP, an error comes up during boot to indicate that the file /var/log/role_select.log (I believe, parts of the string are immediately obscured so this is pieced together from many boots) is being looked for but cannot be found. (Note: /var/log/role_select.log appears to be the filename given; parts of this string are immediately obscured, so this filename is pieced together from many boots.)
RTO00001220	HP Mail System does not work.	<p>The mail system on an HP did not appear to work, no matter how mail was brought up from any account. User receives a message that states that the mail system was not properly set up.</p> <p>Note: These same errors are not received on a SPARC and there were no setup steps required to set up the mail system. An error message "Execution group is incorrect SPT" appears.</p>

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RTO00001227	A path error which requires the affected segment gives an error for each search path.	A path error which requires the affected segment gives an error for each search path. I think one error should be given in the Installation log and not seven. (Exception HP gives 2 errors?)
RTO00001228	COEFindSeg does not follow links like the Solaris tool.	COEFindSeg does not follow links like the Solaris tool. Problem is specific to HP.
RTO00001229	COEFindSeg does not appear to return the correct error statuses 2.	COEFindSeg does not appear to return the correct error statuses particularly a status of 2 (requested segment not particularly a status of found).
RTO00001233	COEInstaller installs patch segments despite displaying error messages.	The Installation Log lists errors for a patch segment, yet shows it as successfully installed anyway. For test segment "Test20.P2", COEInstaller returns the following errors: "(E) Couldn't find segment in any of the known areas..." and "(E) COEAcctGrps: Error Parsing [AcctGroup] descriptor file AcctGroup." The fact that the tool states that the installation process was completed is confusing to the user since there are multiple error messages inferring the opposite. (Note: See related STR that TestInstall returns warnings and messages stating it cannot install, but installs this same segment anyway.)

---

RTO00001234	COEInstaller installs patch created by an older version of VerifySeg but not the newer one.	Different versions of VerifySeg cause patch segments to have opposite results when installing, in that one will install and the other will fail. When loading two patches that were identical except for these differences, the COEInstaller will install the patch created by the older VerifySeg but not the newer one: 1. Validated (two different versions of VerifySeg were used) 2. \$CPU (one specified ALL and the other specified SPARC) 3. ReleaseNotes (should not be a problem) Further testing proves that a segment validated with an older version of VerifySeg will install, whereas the same segment validated with a newer version will not install.
RTO00001235	COEInstaller error message relating to a nonexistent link seems to be applied incorrectly.	Received the following message when deinstalling patch segment (BRAVP1 dated Aug. 96): "(E) Could not unlink /h/AcctGrps/SysAdm/Patches//h/BRAVO/Patches/P1Segment (Test Segment BRAVP1) successfully de-installed." The link mentioned in the error message does not exist, and indeed, BRAVP1 appears to have deinstalled successfully. The two messages are usually mutually exclusive. Since the segment was successfully de-installed, could the error message be misapplied? (Note: This error message is not segment specific, as it was tested against multiple patch segments.)
RTO00001236	COEInstaller is merging former with current listing when reading TOC.	With COEInstaller listing the contents of a tape formerly in the drive, replace the tape without closing the Installer, and select Read Contents. The new display merges the former listing with the current listing. Two symptoms that indicated this problem were: (1) There was no scroll bar available on the Software to Install portion of window although the entire listing could not be viewed, and (2) Some segments were listed twice. This problem is intermittent but repeatable.

RTO00001238	COEInstaller does not present specific error message for failed segments due to lack of PostInstall.	When a patch segment fails the COEInstaller because it doesn't have a PostInstall script, no error appears in the installation log referring to this condition. The end user does not know why the segment fails to load and cannot correct the problem.
RTO00001244	Application Manager - Can Sys Adm: Application Manager - not open a login window unless system is rebooted.	SA_Default Window - Upon exit and login as SysAdm, cannot open an xterm or DTterm window (login) unless the system is "rebooted". (??)(SOL 2.5.1 only).
RTO00001246	Currently, the Installer does not read the menu and icon files for patch segments.	Currently, the Installer does not read the menu and icon files for patch segments. In order to make menu and icon files changes as specified by the patch, the patch must refer to the affected segment of the parent. Modify the Installer to update the menu and icon files appropriately for a patch segment.
RTO00001248	For both HP and SOL, selected a patch and not the parent segment and received errors.	For both HP and SOL, selected a patch and not the parent segment. (Patch segment's affected segment refers to parent.) Received the following errors on both platforms. Will Install the required segment if that exists in this segment tape. (E) Couldn't find segment in any of the known areas. Error - the Affected segment not found for this patch. COEInstller should have found the parent segment on the tape and installed it, however, neither the parent nor the patch segments were installed. Received the following errors on SOL 2.5.1 as well: 'SegName' \$SEGMENT required but not found [Hardware]: Must have either \$DISK or \$PARTITION keyword present. NOTE: \$DISK is present so the hardware descriptor error appears to be bogus.
RTO00001252	Network Printer Admin	Initial creation of the Network Printer Administration capability

RTO00001260	COEInstaller not information user of insufficient disk space.	If not enough disk space exists to install a segment, COEInstaller produces a window indicating that installation is being canceled; however, no indication is provided as to WHY the install is being canceled? No entries are made in the Installation Log either.
RTO00001263	DEINSTALL fails when using the INSTALL_DIR Var.	DEINSTALL fails when using the INSTALL_DIR Var. The INSTALL_DIR variable is set after the DEINSTALL or PostInstall script is run. It should be the first thing set prior to calling the scripts.
RTO00001264	SAMenu.main and SA_Default.main should not appear under Menu Access.	Select either SAMenus.main or SA_Default.main in Menu Access in Edit Profile window; the Edit Menu Access window appears with nothing in it. These two items shouldn't even appear under Menu Access.
RTO00001265	SSO_Default.	With system very slow and logged in as secman and using SSO_Default profile...Double-click SA Default profile (to edit it) in Edit Profile window. System appears frozen and then dumps user out of secman altogether. Core file was created. (Note that SA_Default was about the fourth selection for edit.)
RTO00001276	Must click CURRENT button twice to see exported filesystems.	Disk Manager: After clicking EXPORTFS, user usually has to click CURRENT button twice in order to see file systems currently exported.
RTO00001277	EXPORTFS does not allow temporary export.	Disk Manager EXPORTFS does not allow user to select a temporary file system export (i.e., an export that would deactivate upon system reboot). Upon choosing to export a file system, the prompt "Do you want to permanently export the file system?" does not appear.

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RTO00001278	EXPORTFS does not warn of invalid or nonexistent file system entry.	Disk Manager EXPORTFS does not return warning to user if file system entered in window does not exist. Instead window just closes without any notification; therefore, the user may not realize that his action was incorrect and useless. (Note: The user has to click EXPORTFS and then click CURRENT button in order to see that the file system was not exported.) If the user makes an entry that is not a valid or existing file system, then Disk Manager should return a warning indicating such.
RTO00001279	COEInstaller partially installs a conflicting segment .	COEInstaller will partially install BRAVO when BRAVO P1 is selected for install and ALPHA (with which BRAVO conflicts) is still on system. The install log correctly shows that BRAVO P1's required segment would be installed since found on tape (i.e., BRAVO) but then shows: "(E) A conflicting segment of Test Segment BRAVO was found on disk...Segment Test Segment BRAVO successfully installed." Since BRAVO conflicts with ALPHA, it should not be installed at all and should not return a successful install message. Note that BRAVO does NOT appear as installed in the Currently Installed portion of Installer window but does show up under /h and also in /h/COE/data/Segment and Segments.DII files.
RTO00001280	COEInstaller partially installs an aggregate.	When COEInstaller failed on installing aggregate (use test case with multiple segments, including an aggregate, read from tape using /dev/rmt/?mn and not /dev/rmt/?mnb), it still partially installed the aggregate. The Installer should clean up after itself if a segment fails and not leave any part of aggregate still installed on system. The "parent" for the aggregate shows as installed in the Installer window. Test Results: Problem can be seen with UB seg on Leigh Becker's test tape.

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RTO00001281	COEInstaller abruptly terminates when trying to deinstall a partially installed segment.	COEInstaller abruptly terminates when trying to deinstall a partially installed segment. Test Results: cores on deinstalling partially installed JMPS (part of aggregate).
RTO00001283	Segment permissions not being enforced by tools.	When a segment is created using MakeInstall, the permissions of the segment (owner id) are being maintained after Installation via the Installer on another platform. In a scenario where a developer creates a segment and the segment is owned by "joedev" whose user id is 1501, when the segments permissions are checked on the installed platform they are still user id 1501 or whomever may currently be that id on the installed platform.
RTO00001293	DtTerm does not work on HP 10.10.	User cannot call up a DtTerm window on HP 10.10. Work-around: Use an xterm window instead
RTO00001294	NIS configuration does not work.	If NIS configured with C2 running, user can only log in as root. Tried setting up a NIS server but system would not allow sysadmin and secman logins after reboot. User had to log in as root and manually run the SAnisremove script. Note that all entries during NIS setup were valid and complete. (C2 auditing was enabled by default still; however, system should still not disable sysadmin and secman logins.)
RTO00001295	Change machine ID should not allow selection of "localhost," which locks up system.	Change machine ID should not allow selection of "localhost," which locks up system. Change machine ID should not allow selection of localhost (127.0.0.1); such selection prevents login to any accounts after reboot.
RTO00001296	Edit Local Hosts should not present Local Host (127.0.0.1).	Edit Local Hosts should not present Local Host (127.0.0.1).

RTO00001297	If NIS setup closed prior to completion while C2 "on," no logon allowed.	Description; The user logged in as to "sysadmin" and initialized NIS. In the first dialog, leaving the entry blank, select OK. The next window ask for a Mastermachine. Click on the upper left menubox and close the window. A new window is displaying stating 'is readable.'; click OK. If the user attempts to reboot and login, the user will not be able to login because of an 'invalid home directory'. User cannot log in as root, sysadmin, or secman.
RTO00001298	It would be nice to see installed segments prefixed by an asterisk symbol.	It would be nice to see installed segments prefixed by an asterisk symbol, similar to the UNIX Installer.
RTO00001299	Cannot see options/permissions for exported filesystems through MMI.	User has no way via MMI to know that the options (e.g., rw) selected for an exported file system are correctly activated. Test Results: Also, at least for test purposes, we need to know how to easily check for correct options. Try to mount directory and perform actions.
RTO00001300	Device field pop-up for New File System does not list appropriate HP 10.10 devices.	In New File System window, the Device field pop-up menu lists/dev/dsk/c201d0s0 through /dev/dsk/c201d6s0 and does not list any devices pertinent to HP-UX 10.10. This device menu should list devices applicable for each supported DII configuration (as defined by DISA--HP 10.10, 9.0.7 on TAC-3 and TAC-4, Sol. 2.4, Sol. 2.5.1). Devices such as /dev/rdisk/c0t4d0 should be listed for HP 10.10.
RTO00001302	COEInstaller will not automatically pull required segments from the installation server.	COEInstaller will not automatically pull required segments from the installation server when using Network as the source. Using the Network source, select only a patch with its required segment not already installed; the COEInstaller should automatically install the required segment as it does if the source for the installation is a tape and the required segment is found on tape.



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RTO00001303	Segment Installation Server deinstalls segments not chosed for deinstallation.	Segment Installation Server deinstalls segments not chosed for deinstallation. When the user selects a segment for deinstall and confirms the deinstall (which does list the chosen segment as the one selected for deinstall), deinstallation proceeds but actually deinstalls another segment instead. Upon completion, the install log shows that a different segment (and not the one selected) deinstalled; in the install window, the chosen segment is still listed but the one given in the install log is no longer present. For example, install on the installation server several segments, including JMAPS_NEW, BRAVO, BRAVO.P1, ECHO, INDIA0. Then deinstall BRAVO.P1; Normalization (part of JMAPS_NEW aggregate) deinstalls instead. On the second attempt at deinstalling BRAVO.P1, Journaling (another part of the JMAPS_NEW aggregate) deinstalls. Then deinstall ECHO; BRAVO.P1 deinstalls instead. See related STR RTO-1000 which was closed in last build (3.0.0.3).
RTO00001304	With Test20 and Test20 P3 loaded on the system user can re-install Test 20 successfully.	With Test20 and Test20 P3 loaded on the system, user can re-install Test20 successfully with no warnings presented to indicate that a patch is already installed. Since P3 contains fixes for Test20 that are blown away by the Test20 re-install, the user should at least be forewarned. (Related STR for patches was submitted 12/17/96; we may want to combine these.)
RTO00001306	Error message in Installation Log is confusing when conflicting segment encountered.	Error message in Installation Log is confusing when conflicting segment encountered. The error reads "A conflicting segment of {Segment attempting to be installed} was found on disk." Modify error to read "A segment conflicting with {Segment attempting to be installed} was found on disk."

RTO00001307	From Segment Installation Server, the Working window often does not remap properly.	From Segment Installation Server, the Working window often does not remap properly.
RTO00001308	Test segments EPSILON and INDIA9 do not show up in the Currently Installed portion of the Installer window.	Test segments EPSILON and INDIA9 do not show up in the Currently the Installed window even though they were successfully installed (i.e., successful install messages appeared in the Install Log for them and they each have Installed files in their directories under /h).
RTO00001309	Messages relating to "Successfully converting segment appear in the installation log.	Messages relating to "Successfully converting segment [Segment name] to new format" appear in the installation log after a successful install. These messages should be removed since they serve no useful purpose and are misleading to the user; they imply that the COEInstaller is doing some sort of conversion on the segments, but it is not.
RTO00001311	If user cancels out of an installation process, the Installer window returns without the TOC listing.	If user cancels out of an installation process (i.e., cancels a specific segment load), the Installer window returns without the TOC listing. The user has to re-read the TOC in order to continue with other install actions. The window should return with the TOC still available and not require a re-read.
RTO00001312	COEFindSeg displays only the first line of help info when an error occurs.	COEFindSeg displays only the first line of help info when an error occurs. The tool displays an error message, then one line of help info. If it is going to display the help info, shouldn't it display all of it?
RTO00001314	Cannot permanently mount file system on HP 10.10.	In Disk Manager, mount a file system and choose to permanently mount. The file system shows as mounted in window but does not remain mounted after reboot. Disk Manager is removing the link between /etc/checklist and /etc/fstab as soon as a mount action occurs.

RTO00001317	Local Hosts.	In Edit Local Hosts window, click. Add and enter a name that already exists on system (e.g., is in /etc/hosts) and an ip address and click ok. The Name exists window container a typo: "NAMEED."
RTO00001318	The Edit Local Hosts option closed unexpectedly.	The Edit Local Hosts option closed unexpectedly when an invalid (formatted) .ip address is entered (e.g., 321.1.1.1.1). The warning window to indicate invalid format never appears and the option just automatically closes.
RTO001319	AdmMgr and the PrinterServer did not start up.	After exportfs was done and the system rebooted, both AdmMgr and the PrinterServer did not start up, yet both could be run by hand.

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Total Open STRs: 47

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## Attachment 2 - DII COE Kernel Version 3.0.0.5 (HP-UX 10.10) COTS and GOTS Known Problems and Errors

INRI Number Agency #	Short Desc.	Long-Description
RTO00000012	Performing finds from an xterm when testing the Kernel.	Part of the Kernel test involves performing finds from an xterm for various files, ownerships, permissions, etc. In the process, the xlock kicked in. At the time, two finds were running. Although, the user could interrupt the clock with the keyboard, the system would still not accept any other keyboard or mouse key input. The only way to recover was to telnet in and reboot or to kill the xlock program from telnet.
RTO00000014	In SecAdm, DII_APPS>Assign Passwords does not work.	In SecAdm, DII_APPS>Assign Passwords does not work. Nothing ever appears when icon is double-clicked. System reported on = Solaris 2.4 and HP 9.07.
RTO00000015	New SecAdm or SysAdm profile not working.	A new account for a newly added Security Admin or System Admin profile does not provide user with any icons or menus upon login. (Create a new profile, create a new account using that profile, then login with new account name.) Work-around is to use default Security Admin or System Admin profile, but then user cannot have a tailored profile.
RTO00000018	DII COE 3.0.0.3 kernel for HP 10.10 contains Accounts/Profiles compiled for HP 9.0.7.	DII COE 3.0.0.3 kernel for HP 10.10 contains Accounts/Profiles compiled for HP 9.0.7.
RTO00000019	User cannot use any accounts without manually modifying user account files.	User cannot use any accounts without manually modifying user account files.

RTO00000020	From within Secman, deassigned profiles and then could not reassign SSO_Default.	From within Secman, deassigned profiles and then could not reassign SSO_Default; therefore, could no longer use SSO!
RTO00000021	SA_Default was missing from within Sysadmin, after a system reboot.	From within Sysadmin, after a system reboot, SA_Default was missing. Menu items would appear but Sa_Default icon did not appear in AppManager.
RTO00000022	Security Database presents many message/prompts relating to adding/deleting entries in database.	During install and deinstall, Security Database presents many message/prompts relating to adding/deleting entries in database . The messages are confusing and appear to even be contradictory. User is prompted to delete entries and is then later, in same window, prompted to add them back. Also, Yes and No responses made in window appear to have no effect on what actually occurs; if user enters No to deleting entries, message still appears to indicate that entries are being deleted. (See related printouts of Security Database screens.)
RTO00000024	Global accounts are not supported when C2 enabled.	Only local accounts are supported when C2 is enabled. The Security Manager Remote application should be run only to add global accounts and profiles from client workstations when C2 is not enabled.
RTO00000025	Cannot use profiles other than default.	Can create profiles an assign to users ect. as expected. However, when assuming any profile other than a default profile, no icons or menus are available to the user.
RTO00000026	All profiles are available to all users through the profile selector.	Using Security Mgr, profiles were assigned to users. When selecting profiles using the profile selector all existing profiles are available without regard to what is assigned to the user.

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Total Open STRs: 11

## Part 2. Version Description for the Developer's Toolkit (HP-UX 10.10) Version 3.0.0.5

**NOTE:** Courier font is used to indicate entries to be typed at the keyboard, UNIX commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

### 1. System Overview

Defense Information Infrastructure (DII) Common Operating Environment (COE) developer's tools were developed to aid the developer in the creation and ultimate installation of DII COE segments. The tools make software integration a largely automated process, thus significantly reducing development time while automatically allowing detection of potential integration and runtime problem areas.

This delivery consists of (1) 10 developer tools (`CalcSpace`, `CanInstall`, `ConvertSeg`, `MakeAttribs`, `MakeInstall`, `TestInstall`, `TestRemove`, `TimeStamp`, `VerifySeg`, and `VerUpdate`); (2) a setup script called `MakeTOOLSEnv`; (3) a data file called `TapeSizes` containing a list of known tape devices; and (4) an Application Programmer Interface (API) `examples` directory and `includes` and `libs` directories. The developer's toolkit is delivered separate from the kernel tape. By default, this product is located under the `DII_DEV` directory. The actual location of the developer's toolkit may vary from system to system because it is installed via a tar command. For example, if the toolkit is tarred to `/h`, the path would be `/h/DII_DEV`.

#### Developer's Tools

The 10 developer's tools can be run from the command line, and some can be run from other code using published APIs. The following developer's tools are included in the DII COE Version 3.0.0.5 delivery:

- C     **CalcSpace Version 1.0.0.4**—the `CalcSpace` tool computes the space required for the segment specified and updates the hardware descriptor.
- C     **CanInstall Version 1.0.0.6**—the `CanInstall` tool tests a segment to see if it can be installed, which means that all required segments must already be on the disk and the disk cannot have any conflicting segments.
- C     **ConvertSeg Version 1.0.0.7**—the `ConvertSeg` tool examines segment descriptors and converts them to the latest format.

- C     **MakeAttribs Version 1.0.0.7**—the MakeAttribs tool creates the descriptor file FileAttribs, which recursively traverses every subdirectory beneath the segment home directory and creates a file with lines in the proper format.
- C     **MakeInstall Version 1.0.1.5**—the MakeInstall tool writes one or more segments to an installation medium or packages the segments for distribution over the network.
- C     **TestInstall Version 1.0.0.7**—the TestInstall tool temporarily installs a segment that already resides on disk.
- C     **TestRemove Version 1.0.0.6**—the TestRemove tool removes a segment that was installed by TestInstall.
- C     **TimeStamp Version 1.0.0.6**—the TimeStamp tool puts the current time and date into the `VERSION` descriptor of the specified segment.
- C     **VerifySeg Version 1.0.0.7**—the VerifySeg tool validates that a segment conforms to the rules for defining a segment.
- C     **VerUpdate Version 1.0.1.5**—the VerUpdate tool increments the segment version number and updates the date and time in the `VERSION` descriptor of the specified segment.

The *DII COE Integration and Runtime Specification* provides a complete description of these tools and their functionality.

#### **MakeTOOLSEnv Setup Script**

The MakeTOOLSEnv setup script is located in the `DII_DEV/Scripts` directory. It defines the environment variables required for developers' tools processing.

#### **TapeSizes Data File**

The TapeSizes data file is located in the `DII_DEV/data` directory. It contains a list of known tape devices. This is used as a convenience feature with the MakeInstall tool.

**NOTE:** The environment variable `TOOLS_DATA` must be set and pointing to `DII_DEV/data` in order to allow MakeInstall to access this file.

#### **examples Directory**

The `examples` directory contains a list of example C programming files, which show developers how to use the public APIs. The required public include files are also shown. Examples are located in the `DII_DEV/examples` directory.



**includes Directory**

Public include files are used to compile with the public APIs. Public include files are located in the `DII_DEV/includes` directory.

**libs Directory**

Public API libraries are located in the `DII_DEV/libs` directory.

## 2. Referenced Documents

The following documents are referenced in this Version Description Document:

- C     *Defense Information Infrastructure (DII) Common Operating Environment (COE) Application Programmer Interface (API) Reference Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.RG-1, Inter-National Research Institute, October 29, 1996
- C     *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification* Version 2.0, DII COE I&RTS:Rev 2.0, Inter-National Research Institute, October 23, 1995
- C     *Defense Information Infrastructure (DII) Common Operating Environment (COE) Programming Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.PG-1, Inter-National Research Institute, October 29, 1996.

## 3. Version Description

### 3.1 Inventory of Materials Released

- C     Magnetic media: Two 4mm tapes consisting of a relative tar of the Developer's Toolkit, Version 3.0.0.5 (HP-UX 10.10).
- C     Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version Description Document for the Developer's Toolkit (HP-UX 10.10)* Version 3.0.0.5, Document Control No. DII.3005.HP1010.DTK.VDD-1, December 20, 1996.
- C     Hard-copy Documentation: Two hard copies of the aforementioned Version Description Document.

### 3.2 Software Changes

This is the first delivery of DII COE Kernel for HP Version 10.10; as such, this delivery contains no software changes.

## 4. Installation Instructions

Reference the *DII COE Programming Guide (HP and Solaris)* for instructions on installing the developer's tools.

## 5. Known Problems and Errors

Reference Attachment 1, *DII COE Developer's Toolkit Version 3.0.0.5 (HP-UX 10.10) Known Problems and Errors*, for a list of software problems.

## 6. Release Notes

### General

1. The user must log in as root to install the Developer's Toolkit tape. By doing this, the user will ensure that the tools have the correct permissions and ownerships to simplify use.
2. The tools do not support the `?` command line parameter for help. Help can be displayed for all tools by using the `-h` or `-H` command line parameters.
3. If the add, append, or delete keywords are used in the community `SegDescrip` entry, the brackets "`{ }`" that mark the beginning and end of the text must be the first characters on a new line.
4. The `MakeTOOLSEnv` script must be run in the `DII_DEV/Scripts` directory to set the `TOOLS_HOME`, `MACHINE`, `MACHINE_OS`, and `CPU` environment variables.

### ConvertSeg Tool

1. Data descriptors are converted using `ConvertSeg`, but the developer is responsible for moving the data directory to the proper location. In addition, the `data` descriptor may require hand tooling.
2. Conversion does not occur against the new DII directory structure when using `ConvertSeg`. For instance, if the `progs` directory exists instead of the `bin` directory, no error is generated and no translation occurs. Path names remain the same in the descriptor files and in the directory.
3. `ConvertSeg` does not create a `SegDescrip.NEW` directory as identified in the *DII COE Integration and Runtime Specification*; instead, it moves the original `SegDescrip` directory to `SegDescrip.orig` and creates a converted `SegDescrip` directory.

## **MakeInstall Tool**

1. MakeInstall supports multi-volume tapes but will not divide segments across tapes.
2. MakeInstall does not support variants.
3. MakeInstall does not allow segments and their descriptors to be checked out from the repository.
4. MakeInstall does not support the `-ot {files}` command line option.
5. The `TOOLS_DATA` environment variable must be set to the developer's tools data directory for the device table to be displayed.
6. In order to not compress a segment, the `$NOCOMPRESS` option must be specified in the direct `SegDescrip` entry in the `SegInfo` file. MakeInstall no longer prompts the user with a compress option; instead, the tool automatically references the `SegDescrip` entry.

## **TestInstall Tool**

1. The `AcctGrp` descriptor only supports one entry. If multiple entries exist, only the first account group is created.
2. The `Hardware` descriptor does not support "PC" or "Pentium" in the `$CPU` field and does not support "NT" or "SCO" in the `$OPSYS` field. These keywords are supported but are invalid on UNIX platforms.
3. Network Information Service (NIS) and Domain Name Service (DNS) servers are not updated when processing the `Network` descriptor.
4. The `$NETMASK` keyword in the `Network` descriptor is not processed.
5. The `$HOME_DIR` keyword in the `Requires` descriptor is not processed.

## **TestRemove Tool**

1. TestRemove does not remove services, groups, or password file entries and does not perform an unmount.

## **TimeStamp Tool**

1. If a valid version line in the version file cannot be identified and no command line parameters are given, the TimeStamp tool will return an error.

## **VerifySeg Tool**

1. VerifySeg does not check the syntax of version numbers listed in the `Compat Segment Descriptor` file.
2. VerifySeg performs keyword parsing (searches for keywords and their associated fields) but does not perform validity (bounds or data field) checking in the `Conflicts` or `VERSION` descriptor file.
3. VerifySeg does not perform checking in the `FilesList` Segment Descriptor file.
4. VerifySeg performs validity checking (bounds or data field) on keywords but not on data associated with keywords (e.g., disk size in the `Hardware Segment Descriptor` file).
5. VerifySeg does not check keyword combination or keyword and segment type constraints in the `Hardware Segment Descriptor` file.

### **VerUpdate Tool**

1. If a valid version line in the version file cannot be identified and no command line parameters are given, the VerUpdate tool will return an error.

### **Public APIs**

Please reference the *DII COE API Reference Guide (HP and Solaris)* and the *DII COE Programming Guide (HP and Solaris)* for information on public APIs.

## Attachment 1 - DII COE Developer's Toolkit Version 3.0.0.5 (HP-UX 10.10) Known Problems and Errors

INRI Number Agency #	Short Desc.	Long-Description
RTO00001221	MakeAttribs returns status of "0" on error.	MakeAttribs -p "ManyFiles.root" displayed an error message, but returned a status of "0" vs. "-1".
RTO00001223	TestInstall needs repeated tries on some occasions.	TestInstall often gives an error "Error installing software directory installation was not completed for <segment>" (during the PreInstall) for a run that should have been successful. Repeated tries usually result in a successful run eventually. Sometimes one repeat is needed, other time more repeats are needed.
RTO00001224	CanInstall and TestInstall displays error but installs successfully.	CanInstall and TestInstall display an error "Invalid Name in \$NAME field - maximum characters is 32". Yet returns a status = 0 and successful Installation. (script 35) \$NAME contained "Testing segment 35" less than 32 characters (??). Similar problem for script 46. Problem does not show on SOL 2.4. CanInstall has the same problem.
RTO00001225	MakeInstall help looks distorted at the beginning of "==" comment and at the end of "==" comment.	MakeInstall help looks distorted at the beginning of "==" comment and at the end of "==" comment.
RTO00001226	The user clicks on an application within the SA_Default folder (i.e., Segment Installer) and the menu item is not grayed out.	The user clicks on an application within the SA_Default folder (i.e., Segment Installer) and the menu item is not grayed out. As a result the user can open two copies of the Installer which should not be allowed. (Icon selection does not then prohibit menu option selection.)

RTO00001230	TestInstall does not create a link using the correct path.	TestInstall does not create a link using the correct path. Instead it creates a link using the path given at the command line and not the actual path of the segment.
RTO00001231	MakeInstall does not check for duplicates in the tape index when making tapes.	Software segments are listed twice in the TOC because they are being written to the tape twice during MakeInstall. Adding desired segments during MakeInstall and answering "yes" to include the "parent" segment of one of the segments, results in duplicity in the MakeInstall tape index and on the tape itself. Subsequently, the COEInstaller then shows the same segment (in this case the parent segment) listed twice in "Select Software To Install" area. MakeInstall should check for duplicates when prompting for required segments to be included on a tape. This problem has disastrous potential in that a user could unintentionally overwrite a segment (such as SysAdm) by including the parent segment (someone else's SysAdm) on a tape they are making to load.
RTO00001232	TestInstall is indicating "Installation was not completed..." yet installing the patch anyway.	TestInstall is returning warnings for patches and indicating "Installation was not completed..." however, it does install the patch. For example, running TestInstall on test segment "Test20.P2" returns the following warning: (W) /h/Test20/Patches/P2 was not a link, not removed. The fact that the tool states that the installation process was not completed is confusing to the user since the patch installs anyway. (Note: See related STR that COEInstaller returns errors but installs this same segment.)
RTO00001237	VerifySeg is passing patch segments without PostInstall scripts.	According to I&RTS, PostInstall is required for patches, thus VerifySeg should flag the lack of PostInstall as an error. (A patch segment fails COEInstaller if it does not have PostInstall.)

RTO00001239	Inconsistencies are apparent regarding PostInstall for patch segments.	Table 5-1 in the I&RTS on shows PostInstall as "Required" for patch segments; however at a command line, the "VerifySeg -t" table shows PostInstall as "Optional" for patch segments. Please make these two tables consistent.
RTO00001240	MakeInstall functionality should match the messages it displays.	MakeInstall functionality should match the messages it displays. For the following prompt, "Insert Tape #1 Press any key to continue," the tool does not accept any key, it only accepts [RETURN]. No error message provided to user. Rewrite prompt to indicate press return.
RTO00001247	Does MakeInstall have a limit as to how many segments it can install from a datafile without finding an error?	Does MakeInstall have a limit as to how many segments it can install from a datafile without finding an error? Created a datafile with 39 segments. After the 33rd segment we consistently received an error on every segment. We split up the datafile into two separate files, creating the split after the 32nd segment. We had no problem when referring to the datafiles on the command line when running the tool.
RTO00001282	MakeInstall is not identifying outdated "Validated" file.	Created a Segment (Account Group) that originally did not have a bin directory and successfully performed a VerifySeg and MakeInstall. Then added a bin directory and a single executable under it. When MakeInstall was run again it did not recognize that the segment had changed. Then modified the SegInfo file to comment out a COEServices \$PASSWORDS entry and again was able to run MakeInstall without having to perform a VerifySeg.

RTO00001285	TestInstall fails to load segments. (10.10)	It appears that TestInstall is not working correctly. The problem relates to the VERSION number in the Requires section of SegInfo. The TestInstall program is looking for an exact match on the version number of the required segment vice equal to or greater than VERSION number the way the normal load from tape option the installer uses. The TestInstall generates a warning that the required segment is not present. It should be noted that the same segment, if loaded from tape will load with no problems.
RTO00001313	The -R parameter is not applicable to VerifySeg.	The -R parameter is not applicable to VerifySeg, and should not be a requirement for this tool. VerifySeg never prompts for anything, but attempts to process the -R param when provided, and displays it as an option in the help info display.

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Total Open STRs: 15



## Part 3. Version Description for the Remote Segment Installer

### Segment Version 2.0.0.0

**NOTE:** Courier font is used to indicate entries to be typed at the keyboard, UNIX commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

## 1. System Overview

COERmtInstall is the Defense Information Infrastructure (DII) Common Operating Environment (COE) remote installation tool. It is normally selected from the System Administration menu bar as the `Remote Segment Installer` option, but it may also be invoked from the command line. The COERmtInstall tool can be used in either a *push* or a *pull* mode.

**NOTE:** A Netscape segment must be installed in order to install the COERmtInstall tool. The Netscape segment is required by the Remote Install segment for graphical pull operations.

The remote installation *push* operation involves the transfer of one or more segments from the source site [e.g., Operational Support Facility (OSF)] across the network to the target site. The selected segment(s) either can be loaded on the network installation server or installed directly on the target machine. In the push mode, the operator is at the source site.

The remote installation *pull* operation involves an operator at the target site requesting the transfer of one or more segment install file(s) from the source site across the network to the target site. Pull mode operation has a World-wide Web (WWW) interface intended for ease of use. The selected segment(s) either can be loaded on the network installation server or installed directly on the source machine.

The *DII COE Integration and Runtime Specification* and the *DII COE Remote Segment Installer Segment User's Guide* provide a complete description of the COERmtInstall tool and its functionality.

## 2. Referenced Documents

The following documents are referenced in this Version Description Document:

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification* Version 2.0, DII COE I&RTS:Rev 2.0, Inter-National Research Institute, October 23, 1995

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Programming Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.PG-1, Inter-National Research Institute, October 29, 1996
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Remote Segment Installer Segment User's Guide FINAL* Version 2.0.0.0, DII.2000.Final.RmtInst.UG-1, October 29, 1996
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) System Administrator's Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.AG-1, Inter-National Research Institute, October 29, 1996.

### 3. Version Description

#### 3.1 Inventory of Materials Released

- C Magnetic media: Two 8mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (Solaris 2.4).
- C Magnetic media: Two 8mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (Solaris 2.5.1).
- C Magnetic media: Two 4mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (HP-UX 9.0.7).
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version Description Document for the Remote Segment Installer Segment FINAL* Version 2.0.0.0, Document Control No. DII.2000.Final.RmtInst.VDD-1, October 29, 1996.
- C Hard-copy Documentation: Two hard copies of the aforementioned Version Description Document.

#### 3.2 Software Changes

This is the first delivery of the Remote Segment Installer segment; as such, this delivery contains no software changes.

## 4. Installation Instructions

### 4.1 Installing the Remote Segment Installer Segment

The system administrator must ensure that the system is loaded correctly with the DII COE Version 3.0.0.3 before loading the Remote Segment Installer Version 2.0.0.0 segment. The Remote Segment Installer segment then can be installed using the `Segment Installer` option from the `Software` pull-down menu. Reference the *DII COE System Administrator's Guide (HP and Solaris)* for instructions on installing the Remote Segment Installer segment.

### 4.2 Installing a Segment

Follow the steps below to install a segment from a source site to a target site:

- STEP 1:**      **Run the MakeInstall tool on the segment.** Run `MakeInstall` on the segment using the “write to disk” option. This creates a segment installation tar file. Refer to the *DII COE Programming Guide (HP and Solaris)* for information about running the `MakeInstall` tool.
- STEP 2:**      **Place the file in the appropriate directory.** Copy the segment installation file created by `MakeInstall` to the `RemoteInstall` directory on the repository machine.
- STEP 3:**      **Update the list of the segments in the repository.** Run the `IndexSegs` command, as described in Section 5, *Repository Configuration*. `IndexSegs` should be located in the repository directory.

## 5. Repository Configuration

In DII COE 3.0, the Defense Information Systems Agency (DISA) repository will consist of a directory on a large disk partition. The files stored in this directory must be accessible by anonymous file transfer protocol (FTP) and over the WWW (on the SIPRNET).

**NOTE:** The repository is configured at the repository (source) site.

Follow the steps below to set up the repository:

- STEP 1:**      **Set up an anonymous FTP server if you want to support command line push and pull mode operations and set up a WWW server if you want to support graphical pull mode operations.**

Consult the `ftpd` (FTP Daemon) manual pages for instructions on setting up an anonymous FTP server.

Consult the vendor documentation for the selected WWW server (e.g., NCSA HTTPD) for instructions on setting up the server. Make special note of the top-level directory for the server, as well as the document root directory.

**STEP 2: Tar the repository files from the submitted tape to the `~ftp/pub` directory.** Use the following commands:

```
cd ~ftp/pub [RETURN]

tar xvf [tape device] RemoteInstall [RETURN]
```

The following directories will be created:

```
docs/RemoteInstall
```

and

```
cgi-bin/RemoteInstall
```

**STEP 3: Configure aliases to these directories.** Configure aliases to these directories using whatever method is appropriate for your HTTP daemon.

For example, if you are using the NCSA HTTPD package, you would add the following lines to the `srm.conf` file:

```
Alias /RemoteInstall/ <RemoteInstall
target>/docs/RemoteInstall/

ScriptAlias /cgi-bin/RemoteInstall
<RemoteInstall target> /cgi-bin/RemoteInstall
```

**STEP 4: Place segment files in the appropriate directory.** Place any segment files in the following directory:

```
~ftp/pub/RemoteInstall/ <RemoteInstall
target>/docs/RemoteInstall
```

An executable called `IndexSegs` will be in that directory. This executable is used to update the segment index, which is used by `COERmtInstall` to display the segments in the repository.

Type the following command to update the segment index:

```
IndexSegs [repository home directory][RETURN]
```

<b>NOTE:</b> STEP 4 must be performed in order for <code>COERmtInstall</code> to operate properly.
--

- STEP 5:       **(Netscape WWW server only) Set up Secure Socket Layer (SSL) encryption.** User name/password verification needs to be set up for the server in the `docs/RemoteInstall` directory.

**NOTE:** The DII COE 3.0 repository will create segment files immediately once a segment is downloaded, so extra disk space is required on the server, therefore, depending on the segments selected. It is recommended that extremely large segments not be made available for network download to save network resources.

## 6.    **Known Problems and Errors**

This delivery contains no known problems or errors.

## 7.    **Release Notes**

1.    The DII COE kernel must be loaded at the target site before the Remote Segment Installer segment can be used. The following setup issues must be resolved:
  - C       **The account used when running the Remote Segment Installer must have permission to create and write to the network installation server directories (e.g., `/h/NET_SERVER`, `/home2/NET_SERVER`) and `/h/data/global/SysAdm`.** In addition, the root user must be able to read and write to these directories for segments to be installed remotely.
  - C       **The network installation server directory must be shared.** The following line must be in the `/etc/dfs/dfstab` file for Solaris:  
  

```
share -F nfs [name of drive]
```

  
The directory name must be listed in the `/etc/exports` file for HP. If the directory is not shared, use the `Disk Manager` option to share the installation server directory. Refer to the *DII COE System Administrator's Guide (HP and Solaris)* for more information about using the `Disk Manager` option.
  - C       **The working partition must be large enough to hold the necessary segment installation files.** Total disk space required is two to three times the size of the segment installation file.
2.    The COERmtInstall tool provides several security measures (e.g., encryption, passwords, and anonymous FTP) to protect segment transmission and to prevent unauthorized access to the repository or a target site.

**NOTE:** No encryption is available for anonymous FTP. Encryption must be enabled at the source site by using a Netscape server with SSL support.

3. The DII COE 3.0 repository will create segment files immediately once a segment is downloaded (so extra disk space is required on the server), therefore, depending on the segments selected. It is recommended that extremely large segments not be made available for network download to save network resources.
4. The Remote Segment Installer segment cannot execute the Netscape browser because the Netscape segment does not update its path in the SA\_Default profile. To execute the Remote Installer, you must create a link from  
`/h/COE/bin/netscape` to `/h/COTS/WEBBr/bin/Netscape`

## **Part 4. Version Description for Unified Build 3.0.2.3**

### **1. System Overview**

The Unified Build is derived from a command and control system originally designed for the afloat Navy—JOTS (Joint Operational Tactical System). As JOTS expanded to meet the needs of both the afloat and ashore Navy-related communities, it was identified as the Unified Build (UB). The present day UB is the result of combining automated Command, Control, Communications, Computers, and Intelligence (C4I) components, Common Operating Environment, and other vital software to fulfill Joint community requirements.

UB forms the core of a C4I system which interfaces to a variety of military communications and computer systems. UB is designed to meet the unique tactical situation assessment, data fusion, and display needs of battle group and force commanders, subordinate warfare commanders, ship commanding officers, and shore command centers.

The UB concept evolved as the result of various C4I initiatives over a period of several years and culminated with the development of a command and control system in which specific applications are built on top of a “superset” of core software. The core software includes track database management, communications interfaces, message processing, track correlation, database management, and tactical display capabilities. A system fielded using UB to provide core services is usually installed on workstations across a local area network (LAN) and a wide area network (WAN), where operators perform certain tasks.

The host computers for the Defense Information Infrastructure (DII) Common Operating Environment (COE) are the Tactical Advanced Computer, version 3/4 (TAC-3/TAC-4) with the HP-UX 9.0.7 operating system and the Sparc 10/20 with Solaris 2.4 and 2.5.1 operating systems.

### **2. Applicable Documents**

- C Unified Build User's Guide
  - 3.0.2 base document, Vol. 1 and 2 (UB3.0.2:UG2.27 9/19/96)
  - 3.0.2.3 update in progress
- C Unified Build Training Manual
  - 3.0.2 base document (UB3.0.2:TM1.16 9/19/96)
- C Unified Build System Administrators Guide
  - 3.0.2 base document (UB3.0.2:AG2.1 9/19/96)
  - 3.0.2.3 update in progress

### 3. Version Description

#### 3.1 Inventory of Materials Released

Magnetic media. DII COE version 3.0.2.3 UB Segment on a 4mm DAT cartridge intended for the TAC-3/TAC-4 hardware environment. Version 3.0.2.3 segment can be run on DII COE Kernel Version 3.0.0.3 supporting HP-UX 9.0.7.

DII COE version 3.0.2.3 UB Segment on a 4mm DAT cartridge intended for the Sparc 10/20 hardware environment. Version 3.0.2.3 segment can be run on DII COE Kernel Version 3.0.0.3 supporting Solaris Operating System Version 2.4.

DII COE version 3.0.2.3 UB Segment on a 4mm DAT cartridge intended for the Sparc 10/20 hardware environment. Version 3.0.2.3 segment can be run on DII COE Kernel Version 3.0.0.3 supporting Solaris Operating System Version 2.5.1.

Version Description Document (Unified Build 3.0.2.3, dated 12/2/96).

#### 3.2 Software Changes

The following software trouble reports (STRs) and software change proposals (SCPs) have been implemented in the DII COE UB Version 3.0.2.3.

**DJ00004**      Level 5 Compliance: Relative Pathnames in PostInstalls and .cshrc files.

**Problem:**      Level 5, Runtime Environment, Item 2: Correct for all segments.

**Action:**        Problem corrected.

**DJ00007**      Slides Select Printer region not working. The box that displays the area to be printed, displays off the screen.

**Problem:**      Slides Select Printer Region, the box that displays the area to be printed, displays off the screen.

**Action:**        Problem corrected.

**DJ00039**      Cannot associate Acoustic Tracks to other Acoustic Tracks.

**Problem:**      In previous UB releases, Acoustic Tracks could be associated to Acoustic Tracks. In this release, using the ASSOC button has no effect. Loss of capability.



- Action:** Problem corrected. Removed the ability of the operator to attempt incorrect associations using the wrong window by graying out the ASSOC button in the regular track compare window so it is not active. The associate function for acoustic tracks only works in the Acoustic Track Summary window.
- DK00005** If AcctGrp has a number in its name, login & logout process fails to launch.
- Problem:** Created an AcctGrp called C4ITST. After loaded, attempted to launch account group and the login process failed to launch. On review of the PROCESSMGRLOG noted that at the point where the login process should have launched, the AcctGrp name C4ITST was missing from the line "session name C4ITST.C4I.JOTS1:0.0 UID XXX". Ran COESTART SESSION by hand and got correct startup line and programs launched. Took same AcctGrp segment and removed the '4' so that all references in the segment read CITST vice C4ITST and all processes launched correctly. NRAD note: Numbers worked ok at NRAD, but an underscore character in the profile name would not work.
- Action:** Problem corrected.
- DK00008** Libraries/links/header files missing in the OS-Solaris 2.4.
- Problem:** The following libraries are missing from the Solaris 2.4/SunOS 5.4: libXm.a, libmrm.a, and /libmrm.so. The following header files are missing: /usr/openwin/include/X11/PEX5 (PEX lib is present). The following shared libraries need 'unnumbered' lib\*.so links made so the linker will link dynamically: /usr/lib/libC.so.5, /usr/lib/libmrm.so.2, /usr/lib/libX11.so.4, /usr/lib/libXm.so.3, /usr/lib/libXol.so.3, /usr/lib/libXt.so.4, /usr/lib/libld.so.1, /usr/lib/liblddbg.so.2. These are not linked as such following an install. /usr/openwin/lib/libXext also should be linked to /usr/lib for printer usage (ghostscript).
- Action:** Problem corrected.
- DK00010** Archive-restore option doesn't work; GTAR executable missing on Solaris Kernel.
- Problem:** GTAR executable missing on Solaris Kernel tape; present on HP. Needed for archive-restore option.

**Action:** Problem corrected.

**DK00017** Classification settings display UNCLASS regardless of selection.

**Problem:** The classification displays UNCLASS no matter what classification is selected under the JMCIS pull-down menu option and/or a user profile under the Account Management pull-down menu option. This problem only resides in Solaris 2.4 and is a security violation.

**Action:** Problem corrected.

**DK00025** ACDS Interface INOP due to permissions.

**Problem:** Attempts to turn on the ACDS Interface are unsuccessful. This is caused by improper privileges set on the devices NTDS 0, 1, 2, 3. Currently, the privileges are set to 644 and need to be set to 666. The ACDS Interface is two-way for handshaking and will not function in read only.

**Action:** Problem corrected.

**DK00026** PEX extension fails to run on 907 OS.

**Problem:** PEX extension fails to run on 907 OS.

**Action:** Problem corrected. (Note: See open STR 30200000511)

**DU00084** Alert ICON fails to display on menu bar.

**Problem:** The Alert ICON fails to display in upper left hand corner of menu bar. The problem was traced to /h/COE/data /user\_acct/Scripts/.dt/sessions/RunMenuExec.csh. Within the csh script is the line -str "DII-COE". This needs to be removed and the alert ICON will display.

**Action:** Problem corrected.

**DU00131** Messages edited in the Outgoing Log.

**Problem:** Messages in the Outgoing Log can be edited to more than 100 lines.

**Action:** Problem corrected.

**DU00173**      JUNIT reports output with predetermined Force Codes.

**Problem:**      JUNIT reports are output with predetermined Force Codes when non-land Force Codes are input. Input Force Codes "03" (AIR FRIEND) are output as "22" (LAND FRIEND). A Helo can be an AIR FRIEND, but not a Land Track. Also see STR DU00461.

**Action:**        Problem corrected.

**DU00185**      Alerts not logged for MDU messages.

**Problem:**      When an MDU message is received by the system, an alert is not generated in the Alert Log. Related to UB08171.

**Action:**        Problem corrected.

**DU00186**      MDUs not logged correctly in the ILOG are stored on disk.

**Problem:**      MDUs are listed in the ILOG as format "OTHER" and are stored on the hard disk. Used test file UBFORMAT.STP which is a BGDBM test file. BGDBM and NCTSI Cert. issue.

**Action:**        Problem corrected.

**DU00429**      Cartographer takes performance hit when Vector lines displayed.

**Problem:**      When the special PLOT controls > Vector lines are displayed, Cartographer takes a large CPU performance hit. A fix in CGVTS (V2.2) has been incorporated that puts the performance hit in the same range as that noticed when speed leaders are displayed. Need for change: performance evaluations on the JMCIS 2.2 software have indicated that the current implementation of Vector lines requires excess CPU processing. Without performance enhancements to the Vector line code the VTS system will not be able to meet system performance requirements.

**Action:**        Problem corrected.

**DU00430**      Attribute toggles using high percentage of CPU.

**Problem:** PLOT CONTROL: ATTRIBUTE TOGGLES, with AOU, DR, or DR Trailers all set for CAT/THREAT. Cartographer uses high percentages of CPU, which in turn causes CHART menus and functions to become extremely slow or unusable. Note: Related to UB08191/DU00429.

**Action:** Problem corrected.

**DU00461** JUNITREP JUNIT set input force code "03" output as "22"

**Problem:** A JUNITREP JUNIT set field 8 (force code) value of "03" (AIR FRIENDLY) was input and output as "22" (LAND FRIENDLY). Test filename: TST22A; TN/REPORT DTG: T70342/010003Z; mode of operation: cored. Also see DU00173. (Additionally, this applies to 2.1.2.2P3, DTC port).

**Action:** Problem corrected.

**UB08902** Pimtracks - CSE/SPD fields of CPA to Pimtrack (Pimtrack Edit window)

**Problem:** Pimtracks - CSE/SPD fields of CPA to Pimtrack (Pimtrack Edit window) do not update properly. The problem is an "OFF BY ONE" error in the refreshing window widgets. Note: Now it no longer updates after operator does subsequent CPAs to other legs.

**Action:** Problem corrected.

**30200000256** Need 11,000 tracks.

**Problem:** DISA requests 11,000 track slots in Tdbm.

**Action:** Capability implemented. This capability allows an operator to change the size of the track type defaults to any value up to a maximum track total of 11,300. See Section 5: Impact on Developers.

**30200000259** JSA needs Help system.

**Problem:** No Help system available for JSA.

**Action:** Problem corrected.

**30200000279** ICM/PCM on Client machine not accepting updates from the Master machine.

**Problem:** Input Msg Filter option: Created a filter on the Client machine and exited. The filter was exported to the Master machine, but the Client machine became blank (Input Msg Filter option window). Local PCM on the Client not getting updates. The filter has to be removed from the Master machine in order to get data from the channel chosen for the filter.

**Action:** Problem corrected.

**30200000286** Stored Plot Controls: Unable to highlight ARCHIVE/ RESTORE from the pop-up window.

**Problem:** Stored Plot Controls: Unable to highlight ARCHIVE/ RESTORE from the pop-up window.

**Action:** Problem corrected.

**30200000292** TRACKDBCONFIG program fails to run correctly.

**Problem:** TRACKDBCONFIG program fails to run correctly.

**Action:** Problem corrected. (Note: See STR 30200000256. This fix allows the operator to reconfigure size of track database).

**30200000294** Add TRACK DATABASE RECONFIG option to TDBM menu in SYSADMIN.

**Problem:** Add TRACK DATABASE RECONFIG option to TDBM menu in SYSADMIN. This will require a change to UB "SEGINFO" file and a new script called TRACKDBCONFIG.CSH in UB/BIN.

**Action:** Problem corrected. (Note: See STR 30200000256. This fix allows the operator to reconfigure size of track database).

**30200000299** JMCIS INSTALLER De-Install function fails to execute correctly.

**Problem:** The JMCIS INSTALLER De-Install function fails to execute correctly due to an invalid ENV variable.

**Action:** Problem corrected.

**30200000300** Unable to mount /h/data/global when CP name is other than JOTS1. (Solaris only)

**Problem:** If a system is set up with a name other than JOTS1 when JMCIS is loaded, DII COE will not add the required entry into the /etc/dfs/dfstab file to allow a system to mount /h/data/global. (Note: This is as designed.) The problem is that if you are using another developer AcctGrp to launch UB and it is set up as a Master/Client system, the clients will not be able to mount to the CP. To correct this problem, modify the PostInstall of UB to add the required entry. This would also be a problem if the CPs were changed with JMCIS loaded in a Solaris network.

**Action:** Problem corrected.

**30200000320** JMCISRmtMon programs require changes to support multi-head system in DII COE.

**Problem:** JMCISRmtMon programs require changes to support multi-head system in DII COE.

**Action:** Problem corrected.

**30200000321** Add NRTI.

**Problem:** Forward fit the NRTI capability currently resident in the 2.2.0.5P9 Fleet Release.

**Action:** Capability implemented. (See open STRs 30200000433, 30200000434, and 30200000435.)

**30200000384** Permissions for /dev/ttyz?? are 644; need to be 666. (HP only)

**Problem:** The Permissions for /dev/ttyz?? are 644 which causes the ttyc1 through ttyd7 to fail to work when JMCIS is launched. Permission must be 666.

**Action:** Problem corrected.

**30200000398** Process runaway on reboot of autostarted serial Comms channels (TRE, FLT Bdst, Link-11).

**Problem:** Process runaway on reboot of autostarted serial Comms channels (TRE, FLT Bdcst, Link-11).

**Action:** Problem corrected.

**30200000399** Indigo message has MSGID fields 1 and 2 reversed.

**Problem:** Indigo message has MSGID fields 1 and 2 reversed (the way GOLD MSGIDs are constructed). The message is not being identified by the UB Comms process which then labels it as OTHER and sends it out as type 31 (0X1F).

**Action:** Problem corrected.

**30200000410** Archiver has a memory leak.

**Problem:** The AUTOBACKUP option in the Archiver does not release some of the memory allocated.

**Action:** Problem corrected.

**30200000416** Satisfy the army API with an additional JMCISDEV delivery.

**Problem:** The four APIs: Alerts, Security, Prefs, and Menu Exec will be temporarily satisfied by a JMCISDEV development segment. These libs and header files will now be available to the development community. Once ARMY satisfies the APIs this segment will not be needed.

**Action:** Problem corrected. This JMCISDEV delivery temporarily fixes the problem stated in open STR DK00002.

**30200000426** Improper handling of ATO segments received via a Comms channel.

**Problem:** If an ATO segment message is received for a given DTG for the first time (implying it's an original message), the merge items are not created, not even after all of the segments for that message have been received.

**Action:** Problem corrected.

**30200000429** Change password on Tdbm logins to prevent pre-11K clients from logging in.

**Problem:** Change version number/password on Tdbm client logins so clients compiled against pre-11K tracks versions of the Tdbm header files will be unable to login to Tdbm and pass incompatible data structures to the server.

**Action:** Problem corrected.

**30200000514** Activate the two-way Link-11 capability.

**Problem:** Activate the two-way Link-11 capability. See Section 5: Impact on Developers.

**Action:** Problem corrected.

The following STRs were a partial pass.

**DU00003** Operator-To-Operator messages no longer working.

**Problem:** Operator-To-Operator messages are no longer working. When transmitted, nothing appears in the receiving window. This worked in previous releases.

**Action:** Partial pass, does not work on Solaris. OTO is a Navy requirement that works on the HP system which is used by Navy operators. Navy does not use Sparc/Solaris configurations.

**DK00020** Multiple monitor and keyboard support for HP 750, 755, J210 and 712 computers.

**Problem:** The 3.0 (3.0.0.3) operating system does not support multiple monitors and keyboards on HP 750, 755, J210 and 712 computers (DI 012 also documents HP 750 requirements). Support is required for the following hardware configurations: HP 750/755: Keyboards: Either one to four HIL keyboards and trackballs or one to four Sun keyboards and trackballs interfaced through a Danford serial multiplexer. Graphics interface: one G-1 card, or one or two G-2 cards. HP J210: Keyboards: One to four keyboards and trackballs. The first keyboard can be connected to the PS-2 port on the CPU, or the HIL port (either a HIL keyboard or PS-2 keyboard through an MIC/HIL adapter). Additional keyboards are connected by daisy chaining on the HIL connector (either HIL keyboards or PS-2



keyboards and MIC/HIL adapters). Graphics interface: Support both of these graphics interface card combinations: (1) total of up to two G-1 and/or G-2 cards to support one to four graphics channels, and (2) a G-1 or G-2 with a G-3 card. HP 712: Support for a single keyboard with a second graphics channel for a two-monitor, single-keyboard workstation.

**Action:** Partial pass due to no multiple monitor/keyboard capability on the J210.

**30200000510** Executables to support Army COMMS server missing from build.

**Problem:** The following executables are missing from UB 3.0.2: CsConfig, CsCtrl, CS\_NETADMIN, and CS\_TCOMM. The data file AppQkeys is incorrectly named AppQKeys.

**Action:** Partial Pass. Fixed on Solaris only. Executables for HP have not been delivered by Army COMMs.

The following STRs were unable to system test.

**DU00121** Insufficient space in the Parameter Uncertainty Table.

**Problem:** The Parameter Uncertainty Table (accessed via pop-up menu option in the ELINT Configuration window) is currently sized to permit up to 10 entries. As part of the requirements for the CI to PDDG change over, many more entries are needed. Require an increase in the number of entries in the Parameter Uncertainty Table from 10 to 50. Need for change: Problem identified during UB SD 2.2.0.5 data collection.

**Action:** Problem corrected. Unable to system test. Cannot configure ELINT mode. (See open STR DU00010.)

**30200000102** Various APIs caused TACPLOT to core dump on the Solaris platform.

**Problem:** Various APIs caused TACPLOT to core dump on the Solaris platform. The problem appears to be from improperly picking up libForm.a during the linking phase of the build.

**Action:** Problem corrected. Unable to system test.

**30200000397** Binary Special Mission Data messages set to TRUE vice FALSE.

**Problem:** Binary Special Mission Data messages have the V6 text field set to TRUE which allows them to be printed on a receiving systems V6 TTY. These Binary Messages should have the text field set to FALSE.

**Action:** Problem corrected. Unable to system test due to lack of appropriate data files.

The following STRs/SCPs are known problems against the build.

**DJ00028** Incorrect classification banner on printouts.

**Problem:** The classification banner on all graphic and text printouts is UNCLASS regardless of the system setting. Security issue--no known work around.

**Action:** Problem not corrected.

**DK00002** The DII COE kernel does not supply a Preferences Toolkit API.

**Problem:** The DII COE spec mandates that segments use the Preferences Toolkit API to determine the operator's current profile. There is presently no Preferences Toolkit API document or library. Without this API, features such as operator permissions cannot be implemented.

**Action:** Problem not corrected. However, a JMCISDEV segment has been provided that supplies the missing Preferences Toolkit API. Refer to STR 30200000416.

**DK00029** No Classification Setting options in a user profile.

**Problem:** There are no Classification Setting options within a profile in HP and Solaris 2.4; thus, UNCLASS is assigned to all profiles created. This is a security violation.

**Action:** Problem not corrected.

**DU00010** Not able to edit in the ELINT CONFIG and source code window.

**Problem:** Even though the ELINT config option is turned on when creating a user role, the ability to use the edit options within the ELINT CONFIG and source code table are disabled.

**Action:** Problem not corrected.

**DU00102** TRETABULAR decoding deficiency with respect to PIN and SCONUM.

**Problem:** The UB TRETABULAR decoder is not handling the subject data elements correctly. When UB receives tabular formatted data from TRE 8.02, a received PIN is decoded and presented in the EMITTER TRACK EDIT window's SCONUM field. When UB receives tabular formatted data from TRE 9.03, a received PIN is not decoded at all. Note that for TRE 9.03, the SCONUM is also not decoded. Consult appendix E of the TRE IDS for classified details of the TRETABULAR format. Suggest modification of the TRETABULAR decoder and the EMITTER TRACK EDIT window to permit utilization of both PIN and SCONUM whenever they are reported. Need for change: problem identified during TSL exercise operation.

**Action:** Problem not corrected.

**DU00167** System not transmitting on re-association of Acoustic Track.

**Problem:** On CT System, associated OTH Track with an Acoustic Track. System properly transmitted new POSITS and SIGNA sets. Broke association and correct DPOS's were sent. Re-associated same pair, but system did not send the update. BGDBM spec violation: withholding data from PT and database divergence. NCTSI cert issue. Related to UB07296 (but not the same).

**Action:** Problem not corrected, unable to recreate.

**DU00171** Break Association in PT Mode generates a message.

**Problem:** Performed break association in PT Mode of ELINT and acoustic track; resulted in transmission of CTC/POS/PAIR set. No database changes are to be transmitted; system should have sent DPLOS, not duplicate CTC/POS/PAIR sets. Major spec violation. This reopens UB04469 which was previously corrected.

**Action:** Problem not corrected. This is not a major spec violation. The only problem may be a net loading problem, caused by the transmitted messages on break association.

**DU00174** SOSUS RED FSH set class parsed to OTG was unnecessarily truncated.

---

<b>Problem:</b>	SOSUS RED FSH set class value "BUMBLE BEE TUNA COMPANY" was parsed to OTG but was (1) incorrectly truncated (from the left) and (2) incorrectly placed in the name field. The value output was "UNA COMPANY" in the name field. Truncation to fit the class (11 chars) portion of the class-name field must be done from the right. Proper OTG output class value is "BUMBLE BEE" (truncate char 11 space to 10).
<b>Action:</b>	Problem not corrected.
<b>DU00175</b>	Two TACELINT PRM set frequencies not output to OTG RADB set.
<b>Problem:</b>	BSY-2 /UB09049 /23 Two TACELINT PRM set frequency values of "99999.4699mhz" (0004z) and "12345.62347mhz" (0009z) were input but not output to the OTG RADB set. Frequencies of other reports were processed.
<b>Action:</b>	Problem not corrected.
<b>DU00176</b>	A TACELINT SOI set ELNOT was input but the OTG RADB set was not output.
<b>Problem:</b>	A TACELINT SOI set field 4 (ELNOT) value of "K901Z" was input but the OTG RADB set was not output. No PRM set was input. However, the ELNOT from the SOI set is all that is required for the RADB set conditionally of fields 3/4 to be met. The RADB set fields 1-3 should have been output even though it might not have been successfully processed by an ELINT correlator.
<b>Action:</b>	Problem not corrected.
<b>DU00191</b>	TACREP EMITTER data processed and output inconsistently.
<b>Problem:</b>	EMITTER data (EMTREW set) found in the TACREP is parsed inconsistently. The following applies (no EMTREW sets amplifying GRNDOP sets): DTG-EW data output?; 00001Z-NO; 0003Z-NO; 0005Z-YES; 0006Z-NO; and 0007Z-NO.
<b>Action:</b>	Problem not corrected.
<b>UB08996</b>	Three acoustic sets are not processed and output.

**Problem:** In TST03, several acoustic contact reports were input, all having a SIGNA set. Not all SIGNA sets were processed and output. It is understood that UB's design requires certain formatted trademarks in order to process the SIGNA set. (Note: Trademark data in OT-OTG is optional data.) It is unknown why this limitation is imposed in the UB software. A remote unit with acoustic measuring capability, as well as the client UB operator, may not be aware of this limitation either. This STR documents that in the absence of specific trademark data in field 3 of the CTC set, acoustic data in the SIGNA set will not be processed. This discarded acoustic data could have been available to the BSY-2 tactical decision maker to support the conduct of his primary mission.

**Action:** Problem not corrected.

**30200000409** UB Restart Chart fails to function properly.

**Problem:** Restart Chart option causes multiple draw modules, etc. Note: When using Restart Chart various executables fail to launch properly (e.g., Track Type Toggles in Plot Control). When run by hand receive alert cannot find TACPLOT. Problem is believed to be in the way the system uses COE start session and close session. In earlier versions the system used CDE login and Restart Chart functioned properly. Since switching to XDM login, it no longer works.

**Action:** Problem not corrected. (Priority 2)

**30200000411** Turning ACDS interface on reboots the system. (HP only)

**Problem:** Selected the ACDS interface in the COMMUNICATIONS window, selected START in the pop-up menu, and the system rebooted.

**Action:** Problem not corrected. (Priority 1)

**30200000417** Correct PREFS library problem for GetRoleDir function in new JMCISDEV.

**Problem:** Correct problem with the GetRoleDir function in the JMCISDEV (Army APIs) repository. The incorrect (old) path is being returned.

**Action:** Problem not corrected. (Priority 2)

**30200000433**            NRTI using GENBCST, transmitting a track with multiple histories; only one history is transmitted.

**Problem:**        NRTI transmitting a track with multiple histories; only one history is transmitted. The most recent 26 should be transmitted.

**Action:**            Problem not corrected. (Priority 2)

**30200000434**            Track edit page for NRTI tracks missing data in the raw data field.

**Problem:**        Track edit page for NRTI tracks missing data in the raw data field.

**Action:**            Problem not corrected. (Priority 1)

**30200000435**            NRTI "send all" in the BCST window only sends out OWN TRACK; the system did not see the NRTI tracks.

**Problem:**        NRTI "send all" in the BCST window only sends out OWN TRACK; the system did not see the NRTI tracks.

**Action:**            Problem corrected. (Priority 2)

**30200000454**            Problems processing ATO messages with long NARR between MSGID and PERID lines.

**Problem:**        While running 3016g, identified a problem processing ATO messages with a long NARR placed between MSGID and PERID lines. Initial investigation has revealed that this problem is NOT limited to ATOX Plus, but is a problem in original ATOX programs. The problem also appears in 2.2.0.5P9 and 3.0.2.x. Additional preliminary investigation shows that NARR data in excess of 96 lines (when placed between the MSGID and PERID lines) presents the problem.

**Action:**            Problem not corrected. (Priority 2)

**30200000511**            Perspective function does not work.

**Problem:**        Perspective function does not work and needs to be fixed to provide 3D and LOS capability for the USMC.

**Action:**            Problem not corrected. (Priority 3)

**30200000513**      Auto Delete window missing the NonRealTime autodelete option.

**Problem:**      Auto Delete window missing the NonRealTime autodelete option. From the Track menu, select the Link Controls option, and select Link AutoDelete. The Auto Delete Window is missing the Non Real Time option.

**Action:**      Problem not corrected. (Priority 3)

**30200000515**      Seven programs in two-way Link-11 core dump. (Solaris only)

**Problem:**      The following 7 programs core dump for two-way Link-11 (Solaris only): Link11-DiffResl, Link11-GridLock, Link11-UpdateRqst, Link11-RecvQual, Link11-CmdMsg, Link11 Supervisor, and Link11-Config

**Action:**      Problem not corrected. ( Priority 2)

## 4.    **Installation Instructions**

Installation instructions are provided by DISA. The load order of the tapes provided for this build are as follows: **UB, Link-11, JMTK.**

Ⓒ      NIMA JMTK versions 1.0.0.5 and 1.0.0.6 are not compatible with UB 3.0.2.3 due to changes in database format and NRTI.

Ⓒ      See Section 5 for 11K track database and two-way Link-11 considerations.

## 5.    **Impact on Developers**

A. Segment developers will be required to:

- Ⓒ      Run the DII COE ConvertSeg tool to create DII COE-compliant segments.
  - Use DII COE 3.0.0.2 VerifySeg; DII COE 3.0.0.3 VerifySeg will not support UB 3.0.2.3.
- Ⓒ      Recompile and relink on the appropriate platform(s) with the DII COE and API libraries.

B. Requirements for the 11-thousand track upgrade:

1.      Hardware recommendation for systems on LAN running greater than the default number of tracks.

**NOTE:** These hardware requirements are estimates. INRI is still testing to determine accurate usage with varying sizes of the track database.

- 128 MB RAM minimum
- 192 MB RAM optimum
- 2 GB of hard drive minimum
- 300 MB of swap space configured

2. Developer considerations:

- Must recompile and relink with the new development segment.
- Must use MAXTRKS rather than a numeric constant when statically allocating storage for arrays whose size corresponds to that of the track database.

3. Installation procedure:

- Install UB 3.0.2.3 on the master and all client machines on the LAN. (No exceptions.) UB 3.0.2.3 is not binary compatible with non-11K track database builds.

4. **Default** track types and database sizes for the 11K track database capability:

<u>TYPE</u>	<u>NUMBER OF TRACKS</u>
Platform	1500
ELINT	1500
LINK	1000
RAYCAS	50
SPA 25	250
Units	1500
FCS	100
Acoustic	100
SI	<u>500</u>
TOTAL=	6,500

5. To reconfigure the 11K track database (maximum 11,300):

- a. Log in to Sysadmin on the Comms Processor (CP).
- b. Select the TDBM pull-down menu.
- c. Select the TRACK DATABASE RECONFIG menu item.
- d. Select new track database sizes for the various track types.
- e. Select OK when finished.
- f. Reboot **all** machines on the LAN.



**NOTE:** With the 11K track capability, there is no automatic archive every 6 hours. The operator must do this operation manually when required.

C. Requirements to activate two-way Link-11:

1. Hardware requirements:
  - Must have a GET NTDS card installed on the user machine that will be interfaced with the Data Terminal Set (DTS).
  - The active two-way Link-11 must talk on an active DTS.
2. Installation procedure:
  - Load Link-11 ADM Segment.
  - Only load this segment if planning to run active two-way Link-11.
3. For further instructions refer to the UB User's Guide and System Administrator's Guide, version 3.0.2 with 3.0.2.3 update.

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## **Part 5. Version Description for the Common Message Processor Version 1.2**

### **1. Scope**

#### **1.1 Identification**

This Software Version Description (SVD) applies to the Common Message Processor (CMP), Version 1.2.

#### **1.2 System Overview**

The CMP is the Common Operating Environment's message handling portion of the common support software suite. The CMP is a generic, table-driven United States Message Text Format (USMTF) processor that prepares, receives, analyzes, and validates USMTF message. A query interface modeled after Structured Query Language (SQL) supports the retrieval and transfer of data from USMTF messages to host system applications software. The system can analyze all USMTF message types, identifying structure and content errors.

The CMP provides tools to aid in the preparation and editing of formatted text messages such as USMTF messages. The system can accommodate all messages in the USMTF standards as well as the other agreed upon message standards. These may be customized to meet user's needs. The system also supports plain language address databases for message addresses.

The CMP provides normalization software that converts message data into a format usable by the host application software from in-coming messages. It also converts data in the format used by the host application software or databases into that of the USMTF or other message formats for out-bound messages.

The CMP MDLMAP program provides for the automatic generation of text formatted messages from information extracted from operational databases. The CMP provides for Message Journaling.

The CMP provides an User's Interface (CUI) which allows the user access to various capabilities of the CMP. The CUI provides the user with a Distributed Computing Environment (DCE) based Journaling client that can be utilized with the Journaling server to provide a distributed method of monitoring all incoming and outgoing messages. Additionally, the CUI provides the user with the capability to interactively create/edit messages by accessing the CMP Message Generation /Edit capability. Finally, the CUI provides a means to filter the incoming and outgoing windows of the CUI. This filtering capability allows the users to filter on FROM, TO, DTG, Precedence, Classification, etc., and to perform various sorts on the message fields.

## 1.3 Document Overview

The purpose of this SVD is to identify and describe the CMP. Section 2 is a list of the documents referenced in this manual. Section 3 describes version 1.2 of the CMP Software.

## 2. Referenced Documents

- C Application Programming Interface (API) for the DII COE CMP, Version 1.2 on the Sun Solaris, dated 28 May 1996
- C Software Requirements Specification (SRS) for the DII COE CMP, Version 1.2 on the Sun Solaris, dated 10 October 1996
- C Software User's Manual (SUM) for the DII COE CMP, Version 1.2, dated 29 August 1996
- C Software Test Description (STD) for the DII COE CMP, Version 1.2, dated 29 August 1996
- C Software Test Report (STR) for the DII COE CMP, Version 1.2, dated 29 August 1996
- C Software Test Plan (STP) for the CMP Version 1.2, dated 29 August 1996

## 3. Version Description

### 3.1 Inventory of Materials Released

The COE CMP Software, Version 1.2 (1.2.2.2 for file-based & 1.2.1.1 for Informix-based) is released on a 35 mm Digital Audio Tape (DAT) in Unix "tar" format.

### 3.2 Inventory of Software Contents

The COE CMP Software, version 1.2 consists of the following files:

Directory structure:

```
CMPINS/  
  CUI/  
    autofill/ bin/ config/ msgs/ bitmap/ system/ state/ lib/ data/ Profiles/  
    SegDescrip/ Scripts/
```

```
DISC  
  bin/ state/ inbound/ outbound/ data/ bitmap/ SegDescrip/ Scripts/
```

JMAPS/

config/ dtab/ mio/ badFormatMsgs/ demo/ duplicateMsgs/ src/ bin/  
doc/ incompleteMsgs/ storage/ data/ skel/ bitmap/ SegDescrip/ Scripts/

JMPS/

bin/ lib/ man/ spool/ src/ SegDescrip/ Scripts/

JOURNALING/

inbound/ outbound/ src/ bin/ doc/ bitmap/ data/ SegDescrip/ Scripts/

NORMALIZATION/

datafiles/ include/ obj/ bin/ environment/ include\_tem/ user\_manual/  
data/ examples/ lib/ SegDescrip/ Scripts/

Source software is found in the src directories in each main sub-directory. Executable programs are found in the bin directories. Message data tables for USMTF messages are found in the dtab directory in the JMAPS and the lib/dtab JMPS directory.

SegDescrip contains release notes and version notes.

Scripts contains installation scripts.

Profiles contains the user interface configuration files.

### **3.3 Changes Installed**

Added changes to CMP User's Interface.

### 3.4 Adaptation Data

Variable Message Format:

- The VMF library provides the capability to successfully Encode and Decoce VMF messages as defined in the VMF TIDP CH3 January 26, 1996.
- The Library provides the followign API's:

```

/*****
/
/*                               *
/
/* routine: unsigned32 vmfhdr2mtf()                               *
/
/* Translate vmf bit-oriented header message to mtf ascii msg      *
/
/* Input:                               *
/
/*  unsigned char *vmf_msg:                               *
/
/*    VMF Message Buffer                               *
/
/*                               *
/
/* Output:                               *
/
/*  char *header:                               *
/
/*    A Pre-allocated buffer to store the ASCII mtf header message.  *
/
/*                               *
/
/* Returns: unsigned32                               *
/
/*    Number of bytes parsed in vmf msg.                               *
/
/*                               *
/
*****/
/
unsigned32 vmfhdr2mtf( unsigned char *vmf_msg, char *header )

```

---

```

/*****
/
/*                               *
/
/* routine: unsigned32 vmf2mtf()                               *
/
/* Translate vmf bit-oriented message to mtf ascii msg         *
/
/* Input:                               *
/
/*  unsigned char *vmf_msg:                               *
/
/*   VMF Message Buffer                               *
/
/*  char *tfilename:                               *
/
/*   The file containing the message table for parsing this message.  *
/
/*                               *
/
/* Output:                               *
/
/*  char *mtf_msg:                               *
/
/*   A Pre-allocated buffer to store the ASCII mtf message.        *
/
/*                               *
/
/* Returns: unsigned32                               *
/
/*   Number of bytes in vmf_msg.                               *
/
/*                               *
/
*****/
/
unsigned32 vmf2mtf( unsigned char *vmf_msg, char *tfilename, char *mtf_msg )

```

---

```

/*****
/
/*                                     *
/
/* routine: unsigned32 mtfhdr2vmf()                                     *
/
/* Translate mtf ascii msg to vmf bit-oriented message                *
/
/* Input:                                     *
/
/* char *header:                                     *
/
/*   A buffer containing the ASCII mtf header message.                *
/
/*                                     *
/
/* Output:                                     *
/
/*   A Pre-allocated VMF Message Buffer                                *
/
/*                                     *
/
/* Returns: unsigned32                                     *
/
/* If success:                                     *
/
/*   Number of bytes in vmf_msg.                                     *
/
/* If NOT success:                                     *
/
/*   VMF_ERROR.                                     *
/
/*                                     *
/
/*****/
/

```

```
unsigned32 mtfhdr2vmf( char *header, unsigned char *vmf_msg )
```



---

```

/*****
/
/*                                     *
/
/* routine: unsigned32 mtf2vmf()                                     *
/
/* Translate mtf ascii msg to vmf bit-oriented message               *
/
/* Input:                                     *
/
/* char *mtf_msg:                                     *
/
/*   A buffer containing the ASCII mtf message.               *
/
/* char *tfilename:                                     *
/
/*   The file containing the message table for parsing this message. *
/
/*                                     *
/
/* Output:                                     *
/
/* unsigned char *vmf_msg:                                     *
/
/*   A Pre-allocated VMF Message Buffer               *
/
/*                                     *
/
/* Returns: unsigned32                                     *
/
/* If success:                                     *
/
/*   Number of bytes in vmf_msg.               *
/
/* If NOT success:                                     *
/
/*   VMF_ERROR.               *
/
/*                                     *
/
*****/
/
unsigned32 mtf2vmf( char *mtf_msg, char *tfilename, unsigned char *vmf_msg )

```

---

- These API's will provide a user with the ability to convert from a VMF message to an MTF representation.
- Additionally, PM CHS provides VMF translator library to convert from VMF to a C Data structure equivalent, And to convert from VMF to an ADA data structure equivalent. To obtain these libraries, please contact Win Parks, PM CHS, 908-427-4991. For Technical support, please contact Robert A. Bissell, Project Manager CMP, Unixpros Inc, 908-389-3295 x524.

### **3.5 Related Documents**

None.

### **3.6 Installation Instructions**

The installation instructions are provided in the Software User's Manual (SUM) for the DII COE CMP.

### **3.7 Possible Problems and Known Errors**

Known problems are documented in the Software Test Report (STR) for the DII COE CMP.

## **4. Notes**

None

## **Part 6. Version Description for JMTK Version 1.0.0.5**

### **1. Identification**

This document is the GCCS/JMTK 1.0.0.5 Version Description Document. The Joint Mapping Toolkit (JMTK) comprises the Mapping, Charting, Geodesy, and Imagery (MCG&I) functionality for the Global Command and Control System (GCCS) under the Defense Information Infrastructure Common Operating Environment (DII COE). The controlling Data Item Description (DID) for preparation of this document is DI-IPSC-81422 (Software Version Document).

#### **1.1 System Overview**

##### **1.1.1 Common Operating Environment Overview**

The DII COE is intended for use by all United States Department of Defense (DOD) Command, Control, Communications, Computer, and Intelligence (C<sup>4</sup>I) Systems and Automated Information Systems (as the infrastructure on which they reside). The COE is defined as an integrated architecture comprised of hardware and software that provides standard, modular, system and applications support software for a tailorable set of functional applications.

Goals of DII COE development are:

- C Interoperability at all levels of C<sup>4</sup>I operation,
- C Reusability of software,
- C Common, intuitive human-computer interface, and
- C Code portability.

##### **1.1.2 JMTK Program**

GCCS/JMTK is a program sponsored by the National Imagery and Mapping Agency (NIMA), formerly the Defense Mapping Agency (DMA), to integrate DOD software into a toolkit which will meet the MCG&I requirements of the Defense Information Systems Agency (DISA) GCCS and DII COE. The GCCS/JMTK will provide standard mapping, charting, geodesy, and imagery data and exploitation capabilities as a functional area for the GCCS COE. The GCCS/JMTK will be implemented through an evolutionary migration process. The 3.0 delivery of the GCCS/JMTK consists of an integration of the Navy's CHART product for visual capabilities, the Army's Terrain Evaluation Module for analysis functions, and the Air Force's Common Mapping Tool Kit for spatial database management services. In subsequent releases, the GCCS/JMTK will migrate from a constrained approach dictated by its initial reliance on the service components' software contributions to an independent architecture that is objective and in compliance with the DII COE.

### **1.1.3 Joint Mapping Tool Kit**

GCCS/JMTK is a secure mapping and analysis system being implemented to provide a variety of services and a communications backbone. It consists of computer software running on UNIX workstations. GCCS/JMTK components are combined to yield specific configurations designed to support a variety of users at various locations. The JMTK is an open system capable of running on any GCCS COE approved platform. The current, approved Commercial Off-the-Shelf (COTS) hardware platforms for GCCS are Hewlett Packard (HP) 9000/700 series workstations and SUN SPARC 10/20/1000/2000 series workstations running under UNIX, and client hardware platforms running under Windows NT (with servers under NT soon to be included). Presently, the GCCS COE release 2.0 software platforms are Sun Solaris Version 2.5 and HP UX Version 9.0.7 with OS compatible versions of X-Windows and Motif. Ultimately, the GCCS/JMTK is to be hardware independent and operate on a range of open system platforms running under standards-based operating systems designated by GCCS. In the interim, the aim is to at least identify, minimize, and isolate hardware dependencies.

The GCCS/JMTK provides common geospatial processing and data to all mission applications and users within the GCCS COE. GCCS/JMTK services consist of a set of geospatial processing components, some of which interface with other GCCS COE elements. GCCS/JMTK provides visualization, analysis, and spatial database management software capabilities for standard geographical information types. GCCS/JMTK functional services are divided into the following seven functional areas, or domains:

- C Domain 1 - Spatial Database Management (of DMA products as well as files generated by GCCS/JMTK),
- C Domain 2 - Visual (display of maps and areas of interest),
- C Domain 3 - Analysis (e.g., terrain analysis, line of sight),
- C Domain 4 - Utilities (e.g., housekeeping, error messages),
- C Domain 5 - Local Image Manipulation (e.g., satellite, photograph),
- C Domain 6 - Overlay Manager; formerly referred to as Geospatial Data Services (e.g., building of overlays, storing of preferences), and
- C Domain 7 - Security, Access and Data Releaseability.

A detailed (i.e., “drill down”) JMTK architecture diagram is provided as Figure 1.2.3-1.

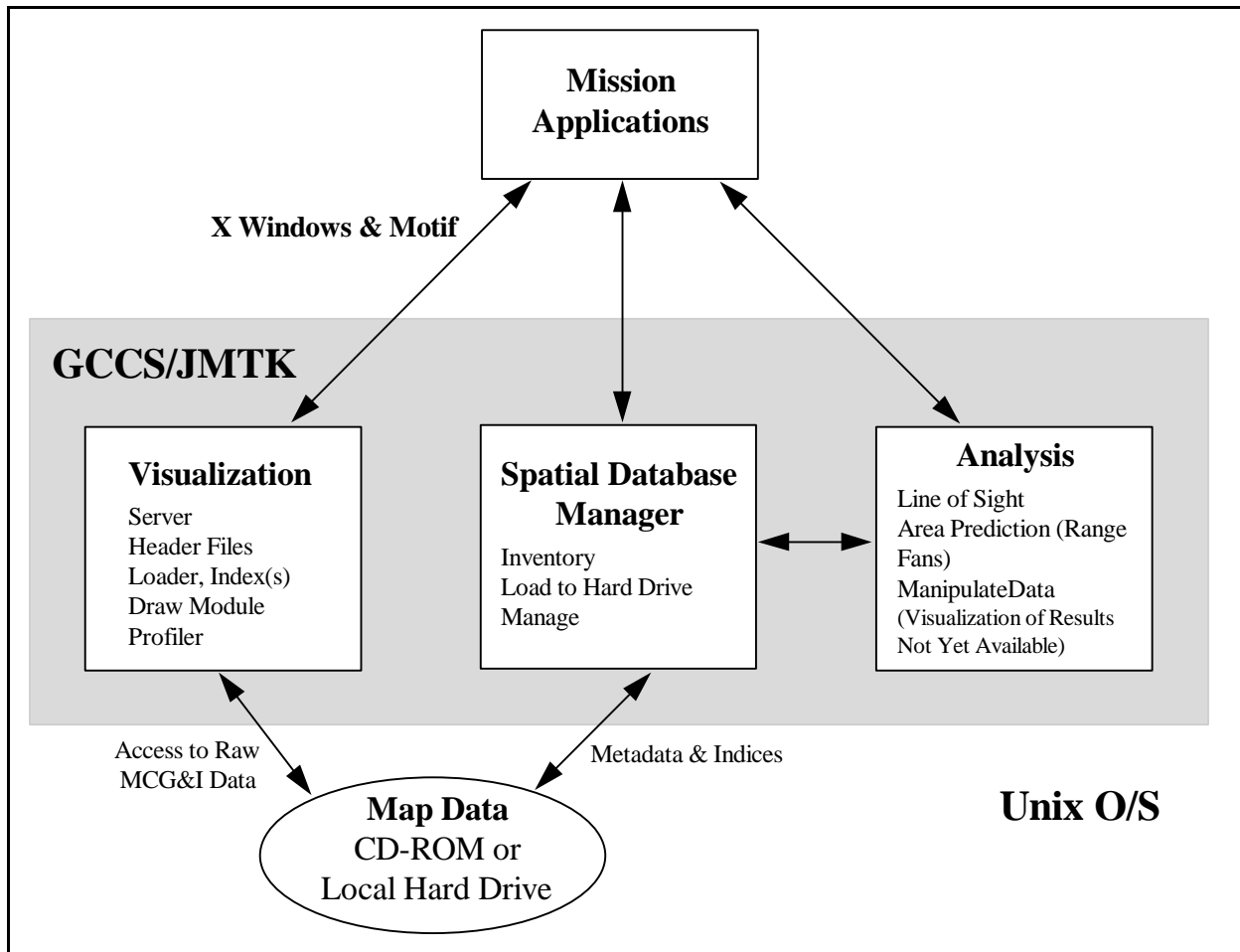





Figure 1.2.3-1. JMTK Version 3.0 Architecture Drill Down

## 1.2 Document Overview

This document outlines the software capabilities required for the GCCS/JMTK module riding on the DII COE. Version numbers used throughout this document refer to segment or domain prepare’s numbering system. This document consists of the following sections:

-  Section 1 identifies the scope and provides an overview of the GCCS/JMTK.
-  Section 2 lists the references applicable to this document.
-  Section 3 includes the inventory of materials released, software changes, installation instructions, related documents, and possible problems and known errors.

C Section 4 contains the applicable notes associated with GCCS/JMTK.

## **2. Referenced Documents**

The following documents form a part of this specification to the extent specified herein. In the event of a conflict between the documents referenced herein and the contents of this specification, the contents of this specification will be considered the governing requirement.

### **2.1 Government Documents**

Defense Information Systems Agency. Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification (I&RTS), Version 2.0. 23 October 1995. PRELIMINARY.

### **2.2 Non-Government Documents**

Computer Sciences Corporation. DRAFT Software Requirements Specification for the Joint Mapping Tool Kit (GCCS/JMTK) of the Global Command and Control System (GCCS) Common Operating Environment (COE). Release 1.0. 9 October 1995.

## **3. Version Description**

### **3.1 Inventory of Materials Released**

Magnetic media: 4mm media tape consisting of a DII COE segment of the JMTK segment, version 1.0.0.5, in HP-UX 9.07 format.

Magnetic media: 8mm media tape consisting of a DII COE segment of the JMTK segment, version 1.0.0.5, in Solaris 2.4 format.

Version Description Document, Defense Information Infrastructure (DII), Common Operating Environment (COE), Joint Mapping Tool Kit, version 1.0.0.5, October 15, 1996

### **3.2 Inventory of Software Contents**

The inventory of all computer files that make up this software version are at Appendix A.

### **3.3 Changes Installed**

Due to the previous integration of JMTK's visual domain and Unified Build (UB) segments, a large number of former JMTK files have been moved into a new directory structure, Appendix A (Joint Mapping Visual File Descriptions). Those files that have been developed and integrated since the delivery of JMTK 1.0.0.4 are listed in Appendix B. Appendix B (JMTK 1.0.0.5 File

Descriptions) also identifies files which are now located in a different directory in JMTK 1.0.0.5. Appendix C (JMTK 2.0.0.3 Files that have been dropped from JMTK 3.0.2.2 Visual ) lists those files that were not JMTK specific and have been dropped from the JMTK visual domain. APIs that have been developed and/or integrated since the delivery of JMTK 1.0.0.4 are listed in Appendix D (GCCS/JMTK APIs).

### **3.4 Adaptation Data**

There is no unique-to-site data contained in this version of JMTK.

### **3.5 Related Documents**

Version Description Document, Defense Information Infrastructure (DII), Common Operating Environment (COE), Joint Mapping Tool Kit, Visual Domain (JMV), version 3.0.2.2, DRAFT, INRI Document Control No. DMA.JMTK 3.0.2.2 VDD October 1, 1996.

Unified Build/JMTK User's Guide, DRAFT.

### **3.6 Installation Instructions**

Follow the installation instructions below to install either a Solaris 2.4 or HP-UX 9.07 tape:

1. Place the tape in the corresponding tape drive and wait for the lights to stop flashing.
2. Log in as **sysadmin** and select the **Software** option from the **System Administrator** menubar. Then select the **COE Installer** option. The **COE Installer** widow will appear.
3. Select the **Read TOC** button in the **COE Installer** window. The segment name **JMTK** will now appear in the **Table of Contents** field of this window.
4. Select the **JMTK** segment by clicking on the entry. Then select the **Install** button. The **JMTK** segment will now be installed on the system.
5. Remove the tape from the drive after the **JMTK** segment is installed successfully.
6. Select the **STAT LOG** button in the **COE Installer** window to verify installation of the segment.
7. Exit the **COE Installer** window.

### **3.7 Possible Problems and Known Errors**

The following known problems exist within this segment:

The API **MALlocVerify** is no longer supported, due to prior hardware dependencies.

The API MDebug is the name of the man page and does not represent a valid API; therefore, this API name should be removed from the list of JMTK supported APIs.

Due to a kernel parameter problem involving the CB inode table in HP-UX 9.07, the Gridded data draw module has been replaced with the UB DTED draw module. This merely represents a work around, which allows DTED data to be displayed, until the kernel Software Test Report can be addressed.

The APIs JMV\_MapLoad and JMV\_MapUnLoad have not been properly implemented, partially due to the missing Gridded data draw module. The executable, MapLoad, should be used as a work around.

The UB files (TrackSymbols, TrackProgs and PairingAtts) are included within JMTK due to a TacPlot dependency.

The menu option "Mount CD" does not invoke the proper executable (VEDMount) on Solaris.

The following man pages have not been developed:

JMTK/man/man1/Cartographer.1	JMTK/man/man1/MapControl.1
JMTK/man/man1/CenterWidth.1	JMTK/man/man1/MapIntensity.1
JMTK/man/man1/ChartInsert.1	JMTK/man/man1/MapLoad.1
JMTK/man/man1/DMADraw.1	JMTK/man/man1/Overlays.1
JMTK/man/man1/DMALoad.1	JMTK/man/man1/Pintacks.1
JMTK/man/man1/DMASpatial.1	JMTK/man/man1/RPFDDraw.1
JMTK/man/man1/DestroyChart.1	JMTK/man/man1/RPFLoad.1
JMTK/man/man1/DrawDTED.1	JMTK/man/man1/Run_JMTK_ChartInset.1
JMTK/man/man1/DrawRaster.1	JMTK/man/man1/ Run_JMTK_MENU.
JMTK/man/man1/DrawVector.1	JMTK/man/man1/ RunJMTK.1
JMTK/man/man1/JMTKChart.1	JMTK/man/man1/TacPlot.1
JMTK/man/man1/KillChart.1	JMTK/man/man1/TestPolyline.1
JMTK/man/man1/KillJMTK.1	JMTK/man/man1/VEDEdit.1
JMTK/man/man1/LoadDTED.1	JMTK/man/man1/VEDMgr.1
JMTK/man/man1/LoadRaster.1	JMTK/man/man1/VEDMount.1
JMTK/man/man1/MapColorCtl.1	JMTK/man/man1/mkmapdir.1

JMTK/man//man/SDBM

JMTK/man/mam1/Analysis/



## **4. Notes**

### **4.1 Acronyms and Abbreviations**

A	(United States) Army
AF	(United States) Air Force
API	Application Programming Interface
C <sup>4</sup> I	Command, Control, Communications, Computer, and Intelligence
COE	Common Operating Environment
COTS	Commercial Off-the-Shelf
CSC	Computer Sciences Corporation
DMA	Defense Mapping Agency
DOD	Department of Defense
DID	Data Item Description
DII	Department of Defense Information Infrastructure
GCCS	Global Command and Control System
HP	Hewlett-Packard
I&RTS	Integration and Runtime Specification
JMTK	Joint Mapping Toolkit
MC	(United States) Marine Corps
MCG &I	Mapping, Charting, Geodesy, and Imagery
N	(United States) Navy
NIMA	National Imagery and Mapping Agency
SDBMS	Spatial Database Management System
SRS	Software Requirements Document
UB	Unified Build
UNIX	Computer Operating System (originally developed by Bell Labs)
VPF	Vector Product Format

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## Appendix A. Joint Mapping Visual File Descriptions

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
JMTK Segment relative path name	JMTK/	Moved	
	JMTK/Integ		New
Verify Seg output	JMTK/Integ/VOutput		New
	JMTK/Scripts/	Moved	
JMTK Acct Group environment	JMTK/Scripts/.chrsc.JMTK	Moved	
SegDescript files	JMTK/SegDescrip/	Moved	
SegDescript files	JMTK/SegDescrip/DEINSTALL	Moved	
SegDescript files	JMTK/SegDescrip/PostInstall	Moved	
SegDescript files	JMTK/SegDescrip/ReleaseNotes	Moved	
SegDescript files	JMTK/SegDescrip/SegInfo	Moved	
SegDescript files	JMTK/SegDescrip/SegInfo.SOLARIS		New
SegDescript files	JMTK/SegDescrip/SegName	Moved	
SegDescript files	JMTK/SegDescrip/VERSION	Moved	
SegDescript files	JMTK/SegDescrip/Validated	Moved	
	JMTK/bin/	Moved	
Visualization Server	JMTK/bin/Cartographer	Moved	
Map window characteristics	JMTK/bin/CenterWidth	Moved	
Map inset window	JMTK/bin/ChartInset	Moved	
VPF draw module	JMTK/bin/DMADraw	Moved	
VPF loader	JMTK/bin/DMALoad	Moved	
VPF spatial query	JMTK/bin/DMASpatial	Moved	
Remove a map window	JMTK/bin/DestoryChart	Moved	
Gridded data draw module	JMTK/bin/DrawDTED	Moved	
ADRG draw module	JMTK/bin/DrawRaster	Moved	
Default map background draw module	JMTK/bin/DrawVector	Moved	
Launch JMTK client	JMTK/bin/JMTKChart		New
Kill JMTK client	JMTK/bin/KillChart		New
Kill JMTK session process	JMTK/bin/KillJMTK		New
Gridded data draw module	JMTK/bin/LoadDTED	Moved	
ADRG loader	JMTK/bin/DrawRaster	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
Map window foreground & background color	JMTK/bin/MapColorCtl	Moved	
Map product manager	JMTK/bin/MapControl	Moved	
Map window color fader	JMTK/bin/MapIntensity	Moved	
Map product loader (exec workaround)	JMTK/bin/MapLoad		New
Primitive overlays	JMTK/bin/Overlays	Moved	
Route overlays	JMTK/bin/Pimtracks	Moved	
RPF draw module	JMTK/bin/RPFDRAW	Moved	
RPF loader	JMTK/bin/RPFLoad	Moved	
Demo JMTK map inset client	JMTK/bin/RUN_JMTK_ChartInset1		New
Demo JMTK client	JMTK/bin/RUN_JMTK_DEMO		New
Demo JMTK client with menus	JMTK/bin/RUN_JMTK_MENU		New
Launch JMTK session process	JMTK/bin/RunJMTK		New
Symbology/Overlay server	JMTK/bin/TacPlot		New
Demo overlay client	JMTK/bin/TestPolyline		New
Profiler editor	JMTK/bin/VEDEdit	Moved	
Profiler	JMTK/bin/VEDMgr		New
CD mounter	JMTK/bin/VEDMount		New
Create map header	JMTK/bin/mkmapdir	Moved	
	JMTK/data/	Moved	
JMTK client support files	JMTK/data/Charts.tar.Z		New
Map support files	JMTK/data/MapData.JMTK.tar.Z		New
JMTK client menuing capability	JMTK/data/Menus	Moved	
	JMTK/data/Menus/ChartBar	Moved	
	JMTK/data/Menus/ChartInset	Moved	
	JMTK/data/Profiles		New
	JMTK/data/Profiles/LauchDesc.JMTK		New
	JMTK/data/Profiles/LaunchList.JMTK		New
	JMTK/data/Profiles/Profiles.JMTK		New
TacPlot	JMTK/data/System/		New
UB file, included due to TacPlot dependency	JMTK/data/System/PairingAtts		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
UB file, included due to TacPlot dependency	JMTK/data/System/TrackProgs		New
UB file, included due to TacPlot dependency	JMTK/data/System/TrackSymbols		New
	JMTK/data/VectorData/	Moved	
	JMTK/data/VectorData/defaults/	Moved	
	JMTK/data/VectorData/defaults/Colors	Moved	
	JMTK/data/VectorData/defaults/scales	Moved	
	JMTK/data/VectorData/profiles/	Moved	
	JMTK/data/VectorData/profiles/Default.DCW		New
	JMTK/data/VectorData/profiles/Default.DFLIP		New
	JMTK/data/VectorData/profiles/Default.DNC	Moved	
	JMTK/data/VectorData/profiles/Default.DTOP		New
	JMTK/data/VectorData/profiles/Default.UVMAP		New
	JMTK/data/VectorData/profiles/Default.VMAP		New
	JMTK/data/VectorData/profiles/Default.VTD		New
Motif default resource files	JMTK/data/app-defaults/	Moved	
	JMTK/data/app-defaults/BasicEnvironment		New
	JMTK/data/app-defaults/ColorBox		New
	JMTK/data/app-defaults/ColorTest		New
	JMTK/data/app-defaults/Contour		New
	JMTK/data/app-defaults/CustomHistory		New
	JMTK/data/app-defaults/Dashedline		New
	JMTK/data/app-defaults/Datum_Translation		New
	JMTK/data/app-defaults/DotDashed		New
	JMTK/data/app-defaults/Dotted		New
	JMTK/data/app-defaults/DoubleDash		New
	JMTK/data/app-defaults/Fill25		New
	JMTK/data/app-defaults/Fill50		New
	JMTK/data/app-defaults/Fill75		New
	JMTK/data/app-defaults/FillHorLines		New
	JMTK/data/app-defaults/FillNegSlope		New
	JMTK/data/app-defaults/FillPosSlope		New
	JMTK/data/app-defaults/FillSolid		New
	JMTK/data/app-defaults/FillTransparent		New
	JMTK/data/app-defaults/FillVerLies		New
	JMTK/data/app-defaults/JustCenter		New
	JMTK/data/app-defaults/JustLeft		New
	JMTK/data/app-defaults/JustRight		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/data/app-defaults/LineWidth0		New
	JMTK/data/app-defaults/LineWidth1		New
	JMTK/data/app-defaults/LineWidth2		New
	JMTK/data/app-defaults/LineWidth3		New
	JMTK/data/app-defaults/LongDashes		New
	JMTK/data/app-defaults/Los		New
	JMTK/data/app-defaults/MapEditor	Moved	
	JMTK/data/app-defaults/MapSelect	Moved	
	JMTK/data/app-defaults/Profile		New
	JMTK/data/app-defaults/Sample		New
	JMTK/data/app-defaults/SolidLine		New
	JMTK/data/app-defaults/StyleColdFront		New
	JMTK/data/app-defaults/StyleNone		New
	JMTK/data/app-defaults/StyleNormal		New
	JMTK/data/app-defaults/StyleOccludedFront		New
	JMTK/data/app-defaults/StylePlannedFLET		New
	JMTK/data/app-defaults/StylePlannedFLOT		New
	JMTK/data/app-defaults/StylePresentFLET		New
	JMTK/data/app-defaults/StylePresentFLOT		New
	JMTK/data/app-defaults/StyleStationaryFront		New
	JMTK/data/app-defaults/StyleWarmFront		New
	JMTK/data/app-defaults/TrackMan		New
	JMTK/data/app-defaults/VEEdit	Moved	
	JMTK/data/app-defaults/VEDLoad		New
	JMTK/data/app-defaults/VEDMgr		New
	JMTK/data/app-defaults/VPFEdit		New
JMTK overlay primitive templates	JMTK/data/app-defaults/bitmaps/		New
	JMTK/data/app-defaults/bitmaps/area_style_1.xbm		New
	JMTK/data/app-defaults/bitmaps/area_style_2.xbm		New
	JMTK/data/app-defaults/bitmaps/area_style_3.xbm		New
	JMTK/data/app-defaults/bitmaps/area_style_4.xbm		New
	JMTK/data/app-defaults/bitmaps/area_style_5.xbm		New
	JMTK/data/app-defaults/bitmaps/area_style_6.xbm		New
	JMTK/data/app-defaults/bitmaps/blank.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_1.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_2.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_3.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_4.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_5.xbm		New
	JMTK/data/app-defaults/bitmaps/line_style_6.xbm		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/data/app-defaults/bitmaps/point_symbol_1.xbm		New
	JMTK/data/app-defaults/bitmaps/point_symbol_2.xbm		New
	JMTK/data/app-defaults/bitmaps/point_symbol_3.xbm		New
	JMTK/data/app-defaults/bitmaps/point_symbol_4.xbm		New
	JMTK/data/app-defaults/bitmaps/point_symbol_5.xbm		New
	JMTK/data/app-defaults/bitmaps/point_symbol_6.xbm		New
	JMTK/data/app-defaults/bitmaps/style21.xbm		New
	JMTK/data/app-defaults/bitmaps/style22.xbm		New
	JMTK/data/app-defaults/bitmaps/style23.xbm		New
	JMTK/data/app-defaults/bitmaps/style24.xbm		New
	JMTK/data/app-defaults/bitmaps/style25.xbm		New
	JMTK/data/app-defaults/bitmaps/style26.xbm		New
JMTK default symbology	JMTK/data/fonts/	Moved	
	JMTK/data/fonts/6x9.pcf		New
	JMTK/data/fonts/APP6-51.pcf		New
	JMTK/data/fonts/Airlines.pcf		New
	JMTK/data/fonts/LargeQ21.pcf		New
	JMTK/data/fonts/SmallQ21.pcf		New
	JMTK/data/fonts/VPF.pcf		New
	JMTK/data/fonts/chart-13.pcf		New
	JMTK/data/fonts/chart-13b.pcf		New
	JMTK/data/fonts/chart-21.pcf		New
	JMTK/data/fonts/chart-21b.pcf		New
	JMTK/data/fonts/chart-31.pcf		New
	JMTK/data/fonts/chart-31b.pcf		New
	JMTK/data/fonts/chart-41.pcf		New
	JMTK/data/fonts/chart-41b.pcf		New
	JMTK/data/fonts/chart-51.pcf		New
	JMTK/data/fonts/chart-51b.pcf		New
	JMTK/data/fonts/cour2B18.pcf		New
	JMTK/data/fonts/courB08.pcf		New
	JMTK/data/fonts/courB10.pcf		New
	JMTK/data/fonts/courB12.pcf		New
	JMTK/data/fonts/courB14.pcf		New
	JMTK/data/fonts/courB18.pcf		New
	JMTK/data/fonts/courB24.pcf		New
	JMTK/data/fonts/courBO08.pcf		New
	JMTK/data/fonts/courBO10.pcf		New
	JMTK/data/fonts/courBO12.pcf		New
	JMTK/data/fonts/courBO14.pcf		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/data/fonts/courBO18.pcf		New
	JMTK/data/fonts/courBO24.pcf		New
	JMTK/data/fonts/courO08.pcf		New
	JMTK/data/fonts/courO10.pcf		New
	JMTK/data/fonts/courO12.pcf		New
	JMTK/data/fonts/courO14.pcf		New
	JMTK/data/fonts/courO18.pcf		New
	JMTK/data/fonts/courO24.pcf		New
	JMTK/data/fonts/courR08.pcf		New
	JMTK/data/fonts/courR10.pcf		New
	JMTK/data/fonts/courR12.pcf		New
	JMTK/data/fonts/courR14.pcf		New
	JMTK/data/fonts/courR18.pcf		New
	JMTK/data/fonts/courR24.pcf		New
	JMTK/data/fonts/fonts.alias		New
	JMTK/data/fonts/fonts.dir		New
	JMTK/data/fonts/icons.pcf		New
	JMTK/data/fonts/motifsym.pcf		New
	JMTK/data/fonts/newicons.pcf		New
	JMTK/data/fonts/symbols.pcf		New
	JMTK/data/fonts/syms.pcf		New
	JMTK/data/fonts/vidsicons.pcf		New
	JMTK/data/fonts/visix.pcf		New
	JMTK/data/fonts/visix2.pcf		New
	JMTK/data/fonts/vpf_pt_sym.pcf	Moved	
	JMTK/data/fonts/vtsingle.pcf		New
	JMTK/data/fonts/z10x20.pcf		New
	JMTK/data/fonts/z12x24.pcf		New
	JMTK/data/fonts/z5x8.pcf		New
	JMTK/data/fonts/z6x10.pcf		New
	JMTK/data/fonts/z6x12.pcf		New
	JMTK/data/fonts/z6x13.pcf		New
	JMTK/data/fonts/z6x13B.pcf		New
	JMTK/data/fonts/z6x9.pcf		New
	JMTK/data/fonts/z7x13.pcf		New
	JMTK/data/fonts/z7x13B.pcf		New
	JMTK/data/fonts/z7x14.pcf		New
	JMTK/data/fonts/z7x14rk.pcf		New
	JMTK/data/fonts/z8x13.pcf		New
	JMTK/data/fonts/z8x13B.pcf		New
	JMTK/data/fonts/z8x16.pcf		New



Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/data/fonts/z8x16rk.pcf		New
	JMTK/data/fonts/z9x15.pcf		New
	JMTK/data/fonts/z9x15rk.pcf		New
	JMTK/data/fonts/zQ21.pcf		New
	JMTK/data/fonts/zcourB08.pcf		New
	JMTK/data/fonts/zcourB10.pcf		New
	JMTK/data/fonts/zcourB12.pcf		New
	JMTK/data/fonts/zcourB14.pcf		New
	JMTK/data/fonts/zcourB18.pcf		New
	JMTK/data/fonts/zcourB24.pcf		New
	JMTK/data/fonts/zcourBO08.pcf		New
	JMTK/data/fonts/zcourBO10.pcf		New
	JMTK/data/fonts/zcourBO12.pcf		New
	JMTK/data/fonts/zcourBO14.pcf		New
	JMTK/data/fonts/zcourBO18.pcf		New
	JMTK/data/fonts/zcourBO24.pcf		New
	JMTK/data/fonts/zcourO08.pcf		New
	JMTK/data/fonts/zcourO10.pcf		New
	JMTK/data/fonts/zcourO12.pcf		New
	JMTK/data/fonts/zcourO14.pcf		New
	JMTK/data/fonts/zcourO18.pcf		New
	JMTK/data/fonts/zcourO24.pcf		New
	JMTK/data/fonts/zcourR08.pcf		New
	JMTK/data/fonts/zcourR10.pcf		New
	JMTK/data/fonts/zcourR12.pcf		New
	JMTK/data/fonts/zcourR14.pcf		New
	JMTK/data/fonts/zcourR18.pcf		New
	JMTK/data/fonts/zcourR24.pcf		New
	JMTK/data/fonts/zcursor.pcf		New
	JMTK/data/fonts/zicons.pcf		New
	JMTK/data/fonts/zserif10.pcf		New
	JMTK/data/fonts/zserfi12.pcf		New
	JMTK/data/fonts/zsymbols.pcf		New
	JMTK/data/fonts/zvidsicons.pcf		New
	JMTK/data/fonts/zvtsingle.pcf		New
JMTK development include files	JMTK/include/	Moved	
JMTK utilities	JMTK/include/JMU/	Moved	
	JMTK/include/JMU/NormDefs.h	Moved	
	JMTK/include/JMU/Types.h	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
JMTK visualization headers	JMTK/include/JMV/	Moved	
DMA API name translations to legacy	JMTK/include/JMV/JMV.h	Moved	
JMTK map product load and unload APIs	JMTK/include/JMV/Load.h	Moved	
Visual public legacy APIs	JMTK/include/M/	Moved	
	JMTK/include/M/Alloc.h	Moved	
	JMTK/include/M/ChartCxt.h	Moved	
	JMTK/include/M/GenInt.h	Moved	
	JMTK/include/M/Genconst.h	Moved	
	JMTK/include/M/Genererror.h	Moved	
	JMTK/include/M/Genlib.h	Moved	
	JMTK/include/M/Gentypes.h	Moved	
	JMTK/include/M/MapData.h	Moved	
	JMTK/include/M/MapRecall.h	Moved	
	JMTK/include/M/MapRecallCol.h	Moved	
	JMTK/include/M/MapRecallCxt.h	Moved	
	JMTK/include/M/MapRecallRec.h	Moved	
	JMTK/include/M/MapRecallRow.h	Moved	
	JMTK/include/M/MapUtils.h	Moved	
	JMTK/include/M/Mconst.h	Moved	
	JMTK/include/M/Merror.h	Moved	
	JMTK/include/M/Mlib.h	Moved	
	JMTK/include/M/Mtypes.h	Moved	
	JMTK/include/M/Mu.h	Moved	
	JMTK/include/M/MuError.h	Moved	
	JMTK/include/M/MuInit.h	Moved	
	JMTK/include/M/MuUnits.h	Moved	
	JMTK/include/M/Qualifiers.h	Moved	
	JMTK/include/M/Symbols.h	Moved	
	JMTK/include/M/Types.h	Moved	
	JMTK/include/M/VectorProduct.h	Moved	
	JMTK/include/M/extern.h	Moved	
Visual legacy private support	JMTK/include/Z/	Moved	
	JMTK/include/Z/XeList.h		New
	JMTK/include/Z/Zlib.h	Moved	
	JMTK/include/Z/ctype.h	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/include/Z/math.h	Moved	
	JMTK/include/Z/stdio.h	Moved	
	JMTK/include/Z/stdlib.h	Moved	
	JMTK/include/Z/types.h	Moved	
	JMTK/include/Z/unistd.h	Moved	
Visual legacy private support	JMTK/include/Zmu/		New
	JMTK/include/Zmu/Row.h		New
	JMTK/include/Zmu/SortList.h		New
	JMTK/include/ZmuZum.h		New
JMTK development libraries	JMTK/lib/	Moved	
All visual API objects	JMTK/lib/libJMTK.a	Moved	
	JMTK/man/	Moved	
	JMTK/man/man1/	Moved	
	JMTK/man/man2/	Moved	
API man pages	JMTK/man/man3/	Moved	
	JMTK/man/man3/Gen-Intro.3		New
	JMTK/man/man3/GenAddFeatur.3	Moved	
	JMTK/man/man3/GenAddProducts.3	Moved	
	JMTK/man/man3/GenAttach.3	Moved	
	JMTK/man/man3/GenChangedFeature.3	Moved	
	JMTK/man/man3/GenChangedMap.3	Moved	
	JMTK/man/man3/GenClip.3	Moved	
	JMTK/man/man3/GenCoord.3	Moved	
	JMTK/man/man3/GenDetach.3	Moved	
	JMTK/man/man3/GenDrawingFeature.3	Moved	
	JMTK/man/man3/GenDrawingMap.3	Moved	
	JMTK/man/man3/GenEnviron.3		New
	JMTK/man/man3/GenError.3	Moved	
	JMTK/man/man3/GenFeatDraw.3		New
	JMTK/man/man3/GenFeatEntry.3		New
	JMTK/man/man3/GenFeatRqst.3		New
	JMTK/man/man3/GenFeatVerify.3		New
	JMTK/man/man3/GenFlushAllRequests.3	Moved	
	JMTK/man/man3/GenGetDisplay.3	Moved	
	JMTK/man/man3/GenInt.3	Moved	
	JMTK/man/man3/GenMapDraw.3		New
	JMTK/man/man3/GenMapEntry.3		New
	JMTK/man/man3/GenMapHead.3		New
	JMTK/man/man3/GenMapRqtsAtts.3		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/man/man3/GenMapVerify.3		New
	JMTK/man/man3/GenNextRequest.3	Moved	
	JMTK/man/man3/GenPending.3	Moved	
	JMTK/man/man3/GenRemoveFeatures.3	Moved	
	JMTK/man/man3/GenRemoveProduct.3	Moved	
	JMTK/man/man3/GenRequests.3		New
	JMTK/man/man3/GenReserveFeature.3	Moved	
	JMTK/man/man3/GenReserveMap.3	Moved	
	JMTK/man/man3/GenSendError.3	Moved	
	JMTK/man/man3/GenServerToSocket.3	Moved	
	JMTK/man/man3/GenUpdmask.3		New
Not properly implemented	JMTK/man/man3/JMV_LoadMap.3	Moved	
Not properly implemented	JMTK/man/man3/JMV_UnLoadMap.3	Moved	
	JMTK/man/man3/M-Intro.3		New
	JMTK/man/man3/MAbortAnimation.3	Moved	
	JMTK/man/man3/MAbortMap.3	Moved	
	JMTK/man/man3/MAddFeature.3	Moved	
	JMTK/man/man3/MAddFeatures.3	Moved	
	JMTK/man/man3/MAddInput.3	Moved	
	JMTK/man/man3/MAddObject.3	Moved	
	JMTK/man/man3/MAddPoint.3	Moved	
	JMTK/man/man3/MAddProduct.3	Moved	
	JMTK/man/man3/MAddProducts.3	Moved	
	JMTK/man/man3/MAddTimeOut.3	Moved	
	JMTK/man/man3/MAddVolume.3	Moved	
	JMTK/man/man3/MApplyAttributes.3	Moved	
	JMTK/man/man3/MApplyColor.3	Moved	
	JMTK/man/man3/MApplyData.3	Moved	
	JMTK/man/man3/MApplyFillOffset.3	Moved	
	JMTK/man/man3/MApplyFillType.3	Moved	
	JMTK/man/man3/MApplyFillWeight.3	Moved	
	JMTK/man/man3/MApplyFont.3	Moved	
	JMTK/man/man3/MApplyHiLite.3	Moved	
	JMTK/man/man3/MApplyLineStyle.3	Moved	
	JMTK/man/man3/MApplyLineType.3	Moved	
	JMTK/man/man3/MApplyLineWidth.3	Moved	
	JMTK/man/man3/MApplyPickability.3	Moved	
	JMTK/man/man3/MApplyPixel.3	Moved	
	JMTK/man/man3/MApplyPriority.3		New

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/man/man3/MApplyTemplates.3	Moved	
	JMTK/man/man3/MApplyVisibility.3	Moved	
	JMTK/man/man3/MAttsMask.3		New
	JMTK/man/man3/MBoundary.3		New
	JMTK/man/man3/MChangeMap.3	Moved	
	JMTK/man/man3/MChangeSymbol.3	Moved	
	JMTK/man/man3/MChangeText.3	Moved	
	JMTK/man/man3/MChannelToSocket.3	Moved	
	JMTK/man/man3/MCloseChannel.3	Moved	
	JMTK/man/man3/MColor.3		New
	JMTK/man/man3/MCopyTemplate.3	Moved	
	JMTK/man/man3/MCreateClass.3	Moved	
	JMTK/man/man3/MCreateList.3	Moved	
	JMTK/man/man3/MCreateMapWindow.3		New
	JMTK/man/man3/MCreateObject.3	Moved	
	JMTK/man/man3/MCreatePoly.3	Moved	
	JMTK/man/man3/MCreateTemplate.3	Moved	
	JMTK/man/man3/MCreateText.3	Moved	
	JMTK/man/man3/MCreateWindow.3	Moved	
	JMTK/man/man3/MDebug.3	Moved	
	JMTK/man/man3/MDestroyList.3	Moved	
	JMTK/man/man3/MDestroyObject.3	Moved	
	JMTK/man/man3/MDestroyWindow.3	Moved	
	JMTK/man/man3/MDrawAngleText.3		New
	JMTK/man/man3/MDrawArc.3	Moved	
	JMTK/man/man3/MDrawBitMap.3	Moved	
	JMTK/man/man3/MDrawBox.3	Moved	
	JMTK/man/man3/MDrawChar.3	Moved	
	JMTK/man/man3/MDrawChar16.3	Moved	
	JMTK/man/man3/MDrawCircle.3	Moved	
	JMTK/man/man3/MDrawEllipse.3	Moved	
	JMTK/man/man3/MDrawLine.3	Moved	
	JMTK/man/man3/MDrawPolyline.3	Moved	
	JMTK/man/man3/MDrawPolygon.3	Moved	
	JMTK/man/man3/MDrawRectangle.3	Moved	
	JMTK/man/man3/MDrawSector.3	Moved	
	JMTK/man/man3/MDrawSegment.3	Moved	
	JMTK/man/man3/MDrawSlash.3	Moved	
	JMTK/man/man3/MDrawSymbol.3	Moved	
	JMTK/man/man3/MDrawText.3	Moved	
	JMTK/man/man3/MDrawWeather.3	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/man/man3/MDrawWorld.3	Moved	
	JMTK/man/man3/MEnviron.3		New
	JMTK/man/man3/MError.3	Moved	
	JMTK/man/man3/MEventMask.3		New
	JMTK/man/man3/MEvents.3		New
	JMTK/man/man3/MExchangeObject.3	Moved	
	JMTK/man/man3/MFeatAtts.3		New
	JMTK/man/man3/MFeatMask.3		New
	JMTK/man/man3/MFlush.3	Moved	
	JMTK/man/man3/MFlushAllEvents.3		New
	JMTK/man/man3/MGetProjectionData.3	Moved	
	JMTK/man/man3/MGetSearchPath.3	Moved	
	JMTK/man/man3/MGetServiceContext.3	Moved	
	JMTK/man/man3/MGetXWindow.3	Moved	
	JMTK/man/man3/MKillServer.3	Moved	
	JMTK/man/man3/MListFeatures.3	Moved	
	JMTK/man/man3/MListMaps.3	Moved	
	JMTK/man/man3/MListObjects.3	Moved	
	JMTK/man/man3/MMainLoop.3	Moved	
	JMTK/man/man3/MMapWindows.3	Moved	
	JMTK/man/man3/MMemory.3	Moved	
	JMTK/man/man3/MModifyFeature.3	Moved	
	JMTK/man/man3/MModifyFeatures.3	Moved	
	JMTK/man/man3/MModifyObjects.3	Moved	
	JMTK/man/man3/MMoveObject.3	Moved	
	JMTK/man/man3/MNextEvent.3	Moved	
	JMTK/man/man3/MNoOp.3	Moved	
	JMTK/man/man3/MObjAtts.3		New
	JMTK/man/man3/MObjMask.3		New
	JMTK/man/man3/MObjectData.3		New
	JMTK/man/man3/MOpenChannel.3	Moved	
	JMTK/man/man3/MPending.3	Moved	
	JMTK/man/man3/MPixelsToPosition.3	Moved	
	JMTK/man/man3/MPositionToPixels.3	Moved	
	JMTK/man/man3/MProdAtts.3		New
	JMTK/man/man3/MProjection.3		New
	JMTK/man/man3/MPutBackEvent.3	Moved	
	JMTK/man/man3/MQueryChannel.3	Moved	
	JMTK/man/man3/MQueryFeatures.3	Moved	
	JMTK/man/man3/MQueryMap.3	Moved	
	JMTK/man/man3/MQueryObject.3	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/man/man3/MQueryObjectBBox.3	Moved	
	JMTK/man/man3/MQueryWindow.3	Moved	
	JMTK/man/man3/MQuickZoom.3	Moved	
	JMTK/man/man3/MRecenterMap.3	Moved	
	JMTK/man/man3/MReleaseFocus.3	Moved	
	JMTK/man/man3/MReleaseWindow.3	Moved	
	JMTK/man/man3/MReloadSearchPath.3	Moved	
	JMTK/man/man3/MRemoveFeature.3	Moved	
	JMTK/man/man3/MRemoveFeatures.3	Moved	
	JMTK/man/man3/MRemoveInput.3	Moved	
	JMTK/man/man3/MRemoveObject.3	Moved	
	JMTK/man/man3/MRemoveProduct.3	Moved	
	JMTK/man/man3/MRemoveProducts.3	Moved	
	JMTK/man/man3/MRemoveTimeOut.3	Moved	
	JMTK/man/man3/MRemoveVolume.3	Moved	
	JMTK/man/man3/MReorderMaps.3	Moved	
	JMTK/man/man3/MRequestFocus.3	Moved	
	JMTK/man/man3/MRestoreCursor.3	Moved	
	JMTK/man/man3/MScaleMap.3	Moved	
	JMTK/man/man3/MSendEvent.3	Moved	
	JMTK/man/man3/MSetAnimateKey.3	Moved	
	JMTK/man/man3/MSetAttributes.3	Moved	
	JMTK/man/man3/MSetColor.3	Moved	
	JMTK/man/man3/MSetCursorAnnotation.3	Moved	
	JMTK/man/man3/MSetCusorMode.3	Moved	
	JMTK/man/man3/MSetData.3	Moved	
	JMTK/man/man3/MSetEventHandler.3	Moved	
	JMTK/man/man3/MSetEventMask.3	Moved	
	JMTK/man/man3/MSetFillOffset.3	Moved	
	JMTK/man/man3/MSetFillType.3	Moved	
	JMTK/man/man3/MSetFillWeight.3	Moved	
	JMTK/man/man3/MSetFont.3	Moved	
	JMTK/man/man3/MSetHiLite.3	Moved	
	JMTK/man/man3/MSetHiLiteColor.3	Moved	
	JMTK/man/man3/MSetIntensity.3	Moved	
	JMTK/man/man3/MSetLineStyle.3	Moved	
	JMTK/man/man3/MSetLineType.3	Moved	
	JMTK/man/man3/MSetLineWidth.3	Moved	
	JMTK/man/man3/MSetMapBounds.3	Moved	
	JMTK/man/man3/MSetMapColors.3	Moved	
	JMTK/man/man3/MSetMapColorsByRGB.3	Moved	

Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/man/man3/MSetMapWidth.3	Moved	
	JMTK/man/man3/MSetObjectData.3	Moved	
	JMTK/man/man3/MSetOffset.3	Moved	
	JMTK/man/man3/MSetPickability.3	Moved	
	JMTK/man/man3/MSetPixel.3	Moved	
	JMTK/man/man3/MSetPriority.3	Moved	
	JMTK/man/man3/MSetSegment.3	Moved	
	JMTK/man/man3/MSetSymbolSize.3	Moved	
	JMTK/man/man3/MSetTemplate.3	Moved	
	JMTK/man/man3/MSetVisibility.3	Moved	
	JMTK/man/man3/MSync.3	Moved	
	JMTK/man/man3/MUnMapWindow.3	Moved	
	JMTK/man/man3/MUpdateclass.3	Moved	
	JMTK/man/man3/MUseNamedWindow.3	Moved	
	JMTK/man/man3/MUseWindow.3	Moved	
	JMTK/man/man3/MUseWinMask.3		New
	JMTK/man/man3/MWindowAtts.3		New
	JMTK/man/man3/Mu-Intro.3		New
	JMTK/man/man3/MuAltitude.3	Moved	
	JMTK/man/man3/MuCovert.3	Moved	
	JMTK/man/man3/MuDistance.3	Moved	
	JMTK/man/man3/MuError.3	Moved	
	JMTK/man/man3/MuFont.3	Moved	
	JMTK/man/man3/MuGeoPosn.3	Moved	
	JMTK/man/man3/MuInit.3	Moved	
	JMTK/man/man3/MuMgrPosn.3	Moved	
	JMTK/man/man3/MuOption.3	Moved	
	JMTK/man/man3/MuPosition.3	Moved	
	JMTK/man/man3/MuReference.3	Moved	
	JMTK/man/man3/MuUnits.3	Moved	
	JMTK/man/man3/MuUtmPosn.3	Moved	
	JMTK/man/man4/	Moved	
	JMTK/man/man5/	Moved	
	JMTK/man/man6/	Moved	
	JMTK/man/man7/	Moved	
	JMTK/man/man8/	Moved	
	JMTK/man/man9/	Moved	
	JMTK/man/man_macro	Moved	
	JMTK/man/mann/	Moved	
JMTK LAN map product support files	JMTK/topdata.gobal/mapdata/		New



Comments	File Descriptions	Moved	New
	3.0.2.2	3.0.0.3	3.0.2.2
	JMTK/topdata.gobal/mapdata/defaults/		New
	JMTK/topdata.gobal/mapdata/defaults/Default.DTED		New
	JMTK/topdata.gobal/mapdata/profiles/		New
	JMTK/topdata.gobal/mapdata/profiles/Default.DNC		New
	JMTK/topdata.gobal/mapdata/profiles/Default.DTED		New
	JMTK/topdata.gobal/mapdata/tables/		New
	JMTK/topdata.gobal/mapdata/tables/AttValues.DNC		New
	JMTK/topdata.gobal/mapdata/tables/FeatureAtts.DNC		New
	JMTK/topdata.gobal/mapdata/tables/FeatureAtts.DTED		New
	JMTK/topdata.gobal/mapdata/tables/FeatureNames.DNC		New
	JMTK/topdata.gobal/mapdata/tables/FeatureNames.DTED		New

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## Appendix B. JMTK 1.0.0.5 File Descriptions

### **./JMTK:**

**Integ**  
**Scripts**  
**SegDescrip**  
**bin**  
**data**  
**include**  
**lib**  
**man**

### **./JMTK/Integ:**

**VSOOutput**

### **./JMTK/Scripts:**

### **./JMTK/SegDescrip:**

**DEINSTALL**  
**Installed**  
**Installed.DII**  
**PostInstall**  
**ReleaseNotes**  
**SegInfo**  
**SegInfo.HP-UX**  
**SegName**  
**VERSION**  
**Validated**

### **./JMTK/bin:**

**APITEST**  
**Cartographer**  
**CenterWidth**  
**ChartInset**  
**DMADraw**  
**DMALoad**  
**DMASpatial**  
**DestroyChart**  
**DrawDTED**  
**DrawRaster**  
**DrawVector**  
**JMSErrors.def**  
**JMTKChart**  
**KillChart**  
**KillJMTK**  
**LoadDTED**  
**LoadRaster**  
**MapColorCtl**

MapControl  
MapIntensity  
MapLoad  
Overlays  
Pimtracks  
RPFDraw  
RPFLoad  
SDBM  
TacPlot  
TestPolyline  
VEEdit  
VEDMgr  
VEDMount  
mkmapdir

./JMTK/data:

Charts  
MapData  
Menus  
Overlays  
Pimtracks  
Profiles  
Sites  
System  
VectorData  
app-defaults  
fonts

./JMTK/data/Charts:

Inset1:0.0  
Inset2-(640x480):0.0  
Inset3-(640x480):0.0  
MAPMANAGER  
System:0.0

./JMTK/data/Charts/Inset1:0.0:

ActDLRP  
ActFourWhiskeys  
ActMoBoards  
ActOverlays  
ActPimtracks  
ActSatellites  
ActScreenKilos  
DefaultMap  
PlotSettings  
PreviousMap  
SaveWindow  
SiteControls  
TrackGroups

**./JMTK/data/Charts/Inset2-(640x480):0.0:**

**./JMTK/data/Charts/Inset3-(640x480):0.0:**

**./JMTK/data/Charts/System:0.0:**

**ActDLRP**

**ActFourWhiskeys**

**ActMoBoards**

**ActOverlays**

**ActPimtracks**

**ActSatellites**

**ActScreenKilos**

**DefaultMap**

**PlotSettings**

**PreviousMap**

**SaveWindow**

**SiteControls**

**TrackGroups**

**VectorFeatures**

**VectorFeatures.DNC**

**./JMTK/data/MapData:**

**Features**

**M**

**RasterMaps**

**VectorMaps**

**maps.dir**

**./JMTK/data/MapData/Features:**

**GridLines**

**./JMTK/data/MapData/Features/GridLines:**

**grid.index**

**./JMTK/data/MapData/M:**

**FeatureLaunch**

**MapFeatures.xrf**

**MapProjection.xrf**

**MapSubFeatures.xrf**

**MapSubTypes.xrf**

**MapTypes.xrf**

**./JMTK/data/MapData/RasterMaps:**

**./JMTK/data/MapData/VectorMaps:**

**WDBII**

**WVS**

**./JMTK/data/MapData/VectorMaps/WDBII:**

**wdbii10**

wdbii10.index  
wdbii180  
wdbii180.index

./JMTK/data/MapData/VectorMaps/WVS:  
wvs1  
wvs1.index

./JMTK/data/Menus:  
ChartBar  
ChartInset

./JMTK/data/Overlays:  
0a0c19c0ns4b38cp000  
0a0c19c0ns4bhjdd000

./JMTK/data/Pimtracks:

./JMTK/data/Profiles:  
LaunchDesc.JMTK  
LaunchList.JMTK  
Profiles.JMTK

./JMTK/data/Sites:

./JMTK/data/System:  
PairingAtts  
TrackProgs  
TrackSymbols

./JMTK/data/VectorData:  
defaults  
profiles

./JMTK/data/VectorData/defaults:  
Colors  
scales

./JMTK/data/VectorData/profiles:  
Default.DCW  
Default.DFLIP  
Default.DNC  
Default.DTOP  
Default.UVMAP  
Default.VMAP  
Default.VTD

./JMTK/data/app-defaults:  
BasicEnvironment  
ColorBox

ColorTest  
Contour  
CustomHistory  
DashedLine  
Datum\_Translation  
DotDashed  
Dotted  
DoubleDash  
Excl  
Fill25  
Fill50  
Fill75  
FillHorLines  
FillNegSlope  
FillPosSlope  
FillSolid  
FillTransparent  
FillVerLines  
JustCenter  
JustLeft  
JustRight  
LineWidth0  
LineWidth1  
LineWidth2  
LineWidth3  
LongDashes  
Los  
MapEditor  
MapSelect  
Profile  
SDBM  
Sample  
SolidLine  
StyleColdFront  
StyleNone  
StyleNormal  
StyleOccludedFront  
StylePlannedFLET  
StylePlannedFLOT  
StylePresentFLET  
StylePresentFLOT  
StyleStationaryFront  
StyleWarmFront  
TrackMan  
VEDEdit  
VEDLoad  
VEDMgr  
VpfEdit  
bitmaps  
view.mf

**./JMTK/data/app-defaults/bitmaps:**

area\_style\_1.xbm  
area\_style\_2.xbm  
area\_style\_3.xbm  
area\_style\_4.xbm  
area\_style\_5.xbm  
area\_style\_6.xbm  
blank.xbm  
line\_style\_1.xbm  
line\_style\_2.xbm  
line\_style\_3.xbm  
line\_style\_4.xbm  
line\_style\_5.xbm  
line\_style\_6.xbm  
point\_symbol\_1.xbm  
point\_symbol\_2.xbm  
point\_symbol\_3.xbm  
point\_symbol\_4.xbm  
point\_symbol\_5.xbm  
point\_symbol\_6.xbm  
style21.xbm  
style22.xbm  
style23.xbm  
style24.xbm  
style25.xbm  
style26.xbm

**./JMTK/data/fonts:**

6x9.pcf  
APP6-51.pcf  
Airplanes.pcf  
LargeQ21.pcf  
MediumQ21.pcf  
Q21.pcf  
SmallQ21.pcf  
VPF.pcf  
chart-13.pcf  
chart-13b.pcf  
chart-21.pcf  
chart-21b.pcf  
chart-31.pcf  
chart-31b.pcf  
chart-41.pcf  
chart-41b.pcf  
chart-51.pcf  
chart-51b.pcf  
cour2B18.pcf  
courB08.pcf  
courB10.pcf



courB12.pcf  
courB14.pcf  
courB18.pcf  
courB24.pcf  
courBO08.pcf  
courBO10.pcf  
courBO12.pcf  
courBO14.pcf  
courBO18.pcf  
courBO24.pcf  
courO08.pcf  
courO10.pcf  
courO12.pcf  
courO14.pcf  
courO18.pcf  
courO24.pcf  
courR08.pcf  
courR10.pcf  
courR12.pcf  
courR14.pcf  
courR18.pcf  
courR24.pcf  
fonts.alias  
fonts.dir  
icons.pcf  
motifsym.pcf  
newicons.pcf  
symbols.pcf  
syms.pcf  
vidsicons.pcf  
visix.pcf  
visix2.pcf  
vpf\_pt\_sym.pcf  
vtsingle.pcf  
z10x20.pcf  
z12x24.pcf  
z5x8.pcf  
z6x10.pcf  
z6x12.pcf  
z6x13.pcf  
z6x13B.pcf  
z6x9.pcf  
z7x13.pcf  
z7x13B.pcf  
z7x14.pcf  
z7x14rk.pcf  
z8x13.pcf  
z8x13B.pcf  
z8x16.pcf  
z8x16rk.pcf

z9x15.pcf  
z9x15B.pcf  
zQ21.pcf  
zcourB08.pcf  
zcourB10.pcf  
zcourB12.pcf  
zcourB14.pcf  
zcourB18.pcf  
zcourB24.pcf  
zcourBO08.pcf  
zcourBO10.pcf  
zcourBO12.pcf  
zcourBO14.pcf  
zcourBO18.pcf  
zcourBO24.pcf  
zcourO08.pcf  
zcourO10.pcf  
zcourO12.pcf  
zcourO14.pcf  
zcourO18.pcf  
zcourO24.pcf  
zcourR08.pcf  
zcourR10.pcf  
zcourR12.pcf  
zcourR14.pcf  
zcourR18.pcf  
zcourR24.pcf  
zcursor.pcf  
zicons.pcf  
zserif10.pcf  
zserif12.pcf  
zsymbols.pcf  
zvidsicons.pcf  
zvtsingle.pcf

./JMTK/include:  
JMA\_Analysis.h  
JMA\_Dted.h  
JMA\_DtedInternal.h  
JMA\_DtedOffset.h  
JMA\_FanAnalyze.h  
JMA\_MDM\_Errors.h  
JMA\_ProfileAnalyze.h  
JMS.h  
JMS\_.h  
JMS\_AFileIO.h  
JMS\_AFileIO\_.h  
JMS\_ApiDefines.h  
JMS\_ApiGlobals.h  
JMS\_DataAccessDefs.h

JMS\_DataAccessGbls.h  
JMS\_Defines.h  
JMS\_DtedDataAccess.h  
JMS\_DtedDataAccess\_.h  
JMS\_ErrorMsg.h  
JMS\_Errors.h  
JMS\_Globals.h  
JMS\_Main\_.h  
JMS\_MetaData.h  
JMS\_MetaDataGbls.h  
JMS\_RPFDDataAccess.h  
JMS\_RPFDDataAccess\_.h  
JMS\_ResourceDefs.h  
JMS\_ResourceGbls.h  
JMS\_ScreensDefs.h  
JMS\_ScreensGbls.h  
JMS\_ScreensMacros.h  
JMS\_Screens\_.h  
JMS\_VPFDDataAccess.h  
JMS\_VPFDDataAccessGbls.h  
JMS\_VPFDDataAccess\_.h  
JMU  
JMU.h  
JMU\_AFileIO.h  
JMU\_AFileIO\_.h  
JMU\_TT.h  
JMU\_ThreadTrack.h  
JMU\_ThreadTrackGbls.h  
JMU\_ThreadTrack\_.h  
JMV  
M  
Z  
Zmu

./JMTK/include/JMU:  
NormDefs.h  
Types.h

./JMTK/include/JMV:  
JMV.h  
Load.h

./JMTK/include/M:  
Alloc.h  
ChartCxt.h  
GenInit.h  
Genconst.h  
Generror.h  
Genlib.h  
Gentypes.h

MapData.h  
MapRecall.h  
MapRecallCol.h  
MapRecallCxt.h  
MapRecallRec.h  
MapRecallRow.h  
MapUtils.h  
Mconst.h  
Merror.h  
Mlib.h  
Mtypes.h  
Mu.h  
MuError.h  
MuInit.h  
MuUnits.h  
Qualifiers.h  
Symbols.h  
Types.h  
VectorProduct.h  
extern.h

./JMTK/include/Z:

XeList.h  
Zlib.h  
ctype.h  
math.h  
stdio.h  
stdlib.h  
types.h  
unistd.h

./JMTK/include/Zmu:

Row.h  
SortList.h  
Zmu.h

./JMTK/lib:

libJMTK.a

./JMTK/man:

man1  
man2  
man3  
man4  
man5  
man6  
man7  
man8  
man9  
man\_macro

**mann**

**./JMTK/man/man1:**

**./JMTK/man/man2:**

**./JMTK/man/man3:**

**Gen-Intro.3**  
**GenAddFeatures.3**  
**GenAddProducts.3**  
**GenAttach.3**  
**GenChangedFeature.3**  
**GenChangedMap.3**  
**GenClip.3**  
**GenCoord.3**  
**GenDetach.3**  
**GenDrawingFeature.3**  
**GenDrawingMap.3**  
**GenEnviron.3**  
**GenError.3**  
**GenFeatDraw.3**  
**GenFeatEntry.3**  
**GenFeatRqstAtts.3**  
**GenFeatVerify.3**  
**GenFlushAllRequests.3**  
**GenGetDisplay.3**  
**GenInit.3**  
**GenMapDraw.3**  
**GenMapEntry.3**  
**GenMapHead.3**  
**GenMapRqstAtts.3**  
**GenMapVerify.3**  
**GenNextRequest.3**  
**GenPending.3**  
**GenRemoveFeatures.3**  
**GenRemoveProducts.3**  
**GenRequest.3**  
**GenReserveFeature.3**  
**GenReserveMap.3**  
**GenSendError.3**  
**GenServerToSocket.3**  
**GenUpdMask.3**  
**JMA\_AnalysisTypeImage.3**  
**JMA\_ClearAnalysisResult.3**  
**JMA\_ElevationTypeImage.3**  
**JMA\_FanAnalyze.3**  
**JMA\_ProfileAnalyze.3**  
**JMV\_LoadMap.3**  
**JMV\_UnLoadMap.3**  
**M-Intro.3**

**MAbortAnimation.3**  
**MAbortMap.3**  
**MAddFeature.3**  
**MAddFeatures.3**  
**MAddInput.3**  
**MAddObject.3**  
**MAddPoint.3**  
**MAddProduct.3**  
**MAddProducts.3**  
**MAddTimeOut.3**  
**MAddVolume.3**  
**MApplyAttributes.3**  
**MApplyColor.3**  
**MApplyData.3**  
**MApplyFillOffset.3**  
**MApplyFillType.3**  
**MApplyFillWeight.3**  
**MApplyFont.3**  
**MApplyHiLite.3**  
**MApplyLineStyle.3**  
**MApplyLineType.3**  
**MApplyLineWidth.3**  
**MApplyPickability.3**  
**MApplyPixel.3**  
**MApplyPriority.3**  
**MApplyTemplate.3**  
**MApplyVisibility.3**  
**MAttsMask.3**  
**MBoundary.3**  
**MChangeMap.3**  
**MChangeSymbol.3**  
**MChangeText.3**  
**MChannelToSocket.3**  
**MCloseChannel.3**  
**MColor.3**  
**MCopyTemplate.3**  
**MCreateClass.3**  
**MCreateList.3**  
**MCreateMapWindow.3**  
**MCreateObject.3**  
**MCreatePoly.3**  
**MCreateTemplate.3**  
**MCreateText.3**  
**MCreateWindow.3**  
**MDebug.3**  
**MDestroyList.3**  
**MDestroyObject.3**  
**MDestroyWindow.3**  
**MDrawAngleText.3**  
**MDrawArc.3**

**MDrawBitmap.3**  
**MDrawBox.3**  
**MDrawChar.3**  
**MDrawChar16.3**  
**MDrawCircle.3**  
**MDrawEllipse.3**  
**MDrawLine.3**  
**MDrawPolyLine.3**  
**MDrawPolygon.3**  
**MDrawRectangle.3**  
**MDrawSector.3**  
**MDrawSegment.3**  
**MDrawSlash.3**  
**MDrawSymbol.3**  
**MDrawText.3**  
**MDrawWeather.3**  
**MDrawWorld.3**  
**MEnviron.3**  
**MError.3**  
**MEventMask.3**  
**MEvents.3**  
**MExchangeObject.3**  
**MFeatAtts.3**  
**MFeatMask.3**  
**MFlush.3**  
**MFlushAllEvents.3**  
**MGetProjectionData.3**  
**MGetSearchPath.3**  
**MGetServiceContext.3**  
**MGetXWindow.3**  
**MKillServer.3**  
**MListFeatures.3**  
**MListMaps.3**  
**MListObjects.3**  
**MMainLoop.3**  
**MMapWindow.3**  
**MMemory.3**  
**MModifyFeature.3**  
**MModifyFeatures.3**  
**MModifyObject.3**  
**MMoveObject.3**  
**MNextEvent.3**  
**MNoOp.3**  
**MObjAtts.3**  
**MObjMask.3**  
**MObjectData.3**  
**MOpenChannel.3**  
**MPending.3**  
**MPixelsToPosition.3**  
**MPositionToPixels.3**

**MProdAtts.3**  
**MProjection.3**  
**MPutBackEvent.3**  
**MQueryChannel.3**  
**MQueryFeatures.3**  
**MQueryMap.3**  
**MQueryObject.3**  
**MQueryObjectBBox.3**  
**MQueryWindow.3**  
**MQuickZoom.3**  
**MRecenterMap.3**  
**MReleaseFocus.3**  
**MReleaseWindow.3**  
**MReloadSearchPath.3**  
**MRemoveFeature.3**  
**MRemoveFeatures.3**  
**MRemoveInput.3**  
**MRemoveObject.3**  
**MRemoveProduct.3**  
**MRemoveProducts.3**  
**MRemoveTimeOut.3**  
**MRemoveVolume.3**  
**MReorderMaps.3**  
**MRequestFocus.3**  
**MRestoreCursor.3**  
**MScaleMap.3**  
**MSendEvent.3**  
**MSetAnimateKeys.3**  
**MSetAttributes.3**  
**MSetColor.3**  
**MSetCursorAnnotation.3**  
**MSetCursorMode.3**  
**MSetData.3**  
**MSetEventHandler.3**  
**MSetEventMask.3**  
**MSetFillOffset.3**  
**MSetFillType.3**  
**MSetFillWeight.3**  
**MSetFont.3**  
**MSetHiLite.3**  
**MSetHiLiteColor.3**  
**MSetIntensity.3**  
**MSetLineStyle.3**  
**MSetLineType.3**  
**MSetLineWidth.3**  
**MSetMapBounds.3**  
**MSetMapColors.3**  
**MSetMapColorsByRGB.3**  
**MSetMapWidth.3**  
**MSetObjectData.3**



MSetOffset.3  
MSetPickability.3  
MSetPixel.3  
MSetPriority.3  
MSetSegment.3  
MSetSymbolSize.3  
MSetTemplate.3  
MSetVisibility.3  
MSync.3  
MUnMapWindow.3  
MUpdateClass.3  
MUseNamedWindow.3  
MUseWindow.3  
MWinMask.3  
MWindowAtts.3  
Mu-Intro.3  
MuAltitude.3  
MuConvert.3  
MuDistance.3  
MuError.3  
MuFont.3  
MuGeoPosn.3  
MuInit.3  
MuMgrPosn.3  
MuOption.3  
MuPosition.3  
MuReference.3  
MuUnits.3  
MuUtmPosn.3

./JMTK/man/man4:

./JMTK/man/man5:

./JMTK/man/man6:

./JMTK/man/man7:

./JMTK/man/man8:

./JMTK/man/man9:

./JMTK/man/mann:

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## Appendix C. JMTK 2.0.0.3 Files that have been dropped from JMTK 3.0.2.2 Visual

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
JMTK Segment relative path name	JMTK/		
	JMTK/Integ		
Verify Seg output	JMTK/Integ/VSOOutput		
Removed	JMTK/Resources		Dropped
	JMTK/Scripts/		
JMTK Acct Group environment	JMTK/Scripts/.chrsc.JMTK		
SegDescript files	JMTK/SegDescrip/		
SegDescript files	JMTK/SegDescrip/DEINSTALL		
SegDescript files	JMTK/SegDescrip/PostInstall		
SegDescript files	JMTK/SegDescrip/ReleaseNotes		
SegDescript files	JMTK/SegDescrip/SegInfo		
SegDescript files	JMTK/SegDescrip/SegInfo.SOLARIS		
SegDescript files	JMTK/SegDescrip/SegName		
SegDescript files	JMTK/SegDescrip/VERSION		
SegDescript files	JMTK/SegDescrip/Validated		
	JMTK/SegDescrip/Install.DII		Dropped
	JMTK/SegDescrip/ModName		Dropped
	JMTK/SegDescrip/SegType		Dropped
	JMTK/bin/		
Visualization Server	JMTK/bin/Cartographer		
Map window characteristics	JMTK/bin/CenterWidth		
Map inset window	JMTK/bin/ChartInset		
VPF draw module	JMTK/bin/DMADraw		
VPF loader	JMTK/bin/DMALoad		
VPF spatial query	JMTK/bin/DMASpatial		
Remove a map window	JMTK/bin/DestoryChart		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
Gridded data draw module (UB? work around)	JMTK/bin/DrawDTED		
ADRG draw module	JMTK/bin/DrawRaster		
Default map background draw module	JMTK/bin/DrawVector		
Launch JMTK client	JMTK/bin/JMTKChart		
Kill JMTK client	JMTK/bin/KillChart		
Kill JMTK session process	JMTK/bin/KillJMTK		
Gridded dtata draw module	JMTK/bin/LoadDTED		
ADRG loader	JMTK/bin/DrawRaster		
Map window foreground & background color	JMTK/bin/MapColorCtl		
Map product manager	JMTK/bin/MapControl		
Map window color fader	JMTK/bin/MapIntensity		
Map product loader (exec workaround)	JMTK/bin/MapLoad		
Primitive overlays	JMTK/bin/Overlays		
Route overlays	JMTK/bin/Pimtracks		
RPF draw module	JMTK/bin/RPFDRAW		
RPF loader	JMTK/bin/RPFLoad		
Demo JMTK map inset client	JMTK/bin/RUN_JMTK_ChartInset1		
Demo JMTK client	JMTK/bin/RUN_JMTK_DEMO		
Demo JMTK client with menus	JMTK/bin/RUN_JMTK_MENU		
Launch JMTK session process	JMTK/bin/RunJMTK		
Symbology/Overlay server	JMTK/bin/TacPlot		
Demo overlay client	JMTK/bin/TestPolyline		
Profiler editor	JMTK/bin/VEDEdit		
Profiler	JMTK/bin/VEDMgr		
CD mounter (does not invoke Solaris properly)	JMTK/bin/VEDMount		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
Create map header	JMTK/bin/mkmapdir		
	JMTK/bin/Jmv/CDMaps		Dropped
	JMTK/bin/Jmv/CR1		Dropped
	JMTK/bin/Jmv/ChartDemo		Dropped
	JMTK/bin/Jmv/Countries		Dropped
	JMTK/bin/JmvV/DTEDDraw		Dropped
	JMTK/bin/Jmv/DrawCAC		Dropped
	JMTK/bin/Jmv/DrawCountries		Dropped
	JMTK/bin/Jmv/ExportChart		Dropped
	JMTK/bin/Jmv/Features		Dropped
	JMTK/bin/Jmv/LoadADRG		Dropped
	JMTK/bin/Jmv/LoadCAC		Dropped
	JMTK/bin/Jmv/LoadCD		Dropped
	JMTK/bin/Jmv/MapList		Dropped
	JMTK/bin/Jmv/MapManager		Dropped
	JMTK/bin/Jmv/Monitor		Dropped
	JMTK/bin/Jmv/RPFEEdit		Dropped
	JMTK/bin/Jmv/ReloadPath		Dropped
	JMTK/bin/Jmv/SymPlot		Dropped
	JMTK/bin/Jmv/UBChart		Dropped
	JMTK/bin/Jmv/Setup		Dropped
	JMTK/data/		
JMTK client support files	JMTK/data/Charts.tar.Z		
	JMTK/data/Jmv/JUnits		Dropped
	JMTK/data/Jmv/JUnits/JUnitColors		Dropped
	JMTK/data/Jmv/JUnits/JUnitTypes		Dropped
	JMTK/data/Jmv/JUnits/ModTypes		Dropped
Map support files	JMTK/data/MapData.JMTK.tar.Z		
	JMTK/data/Jmv/MapData/		Dropped
	JMTK/data/Jmv/MapData/DBDB/		Dropped
	JMTK/data/Jmv/MapData/DBDB/DBDB		Dropped
	JMTK/data/Jmv/MapData/DBDB/DBDB.mfh		Dropped
	JMTK/data/Jmv/MapData/Features/		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/Jmv/MapData/Features/Borders/		Dropped
	JMTK/data/Jmv/MapData/Features/Borders/political		Dropped
	JMTK/data/Jmv/MapData/Features/Borders/political.index		Dropped
	JMTK/data/Jmv/MapData/Features/Bottoms/		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0050		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0050.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0100		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0100.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0200		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0200.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0300		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0300.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0400		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0400.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0500		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0500.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0600		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0600.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0700		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0700.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0800		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0800.index		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0900		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-0900.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-1000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-1000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-2000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-2000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-3000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-3000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-4000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-4000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-5000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-5000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-6000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-6000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-7000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-7000.index		Dropped
All contours with level-values	JMTK/data/Jmv/MapData/Features/Bottoms/Level-8000		Dropped
All contours with level values and .index	JMTK/data/Jmv/MapData/Features/Bottoms/Level-8000.index		Dropped
	JMTK/data/Jmv/MapData/Features/Countries/		Dropped
	JMTK/data/Jmv/MapData/Features/Countries/CountryColors		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AC.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AR.dat		Dropped



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ASKA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ASKA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/AY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/AY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BB.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BB.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BD.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BD.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BH.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BM.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BX.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BX.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/BY.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/BY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CB.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CB.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CD.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CD.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CH.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CJ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CJ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CK.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CM.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CS.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CW.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/CZ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/CZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/DA.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/DA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/DJ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/DJ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/DO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/DO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/DR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/DR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/EC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/EC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/EG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/EG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/EI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/EI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/EK.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/EK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ES.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ES.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ET.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ET.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FJ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FJ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FO.dat		Dropped



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FR_CLP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/_FR_CLP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FR_IN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FR_IN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FR_clp.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FR_clp.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/FR_is.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/FR_is.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GA.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GB.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GB.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GH.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GJ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GJ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GP.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/GZ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/GZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HA.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HAW.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HAW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HK.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HM.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/HU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/HU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ID.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ID.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IY.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/IZ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/IZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/JA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/JA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/JA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/JA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/JM.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/JM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/JO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/JO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/JQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/JQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/KE.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/KE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/KN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/KN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/KR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/KR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/KS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/KS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/KU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/KU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LI.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/LY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/LY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MB.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MB.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MC.dat		Dropped



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MH.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ML.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ML.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MN.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MP.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MX.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MX.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MY.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/MZ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/MZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NH.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NR.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NR.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NU.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/NZ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/NZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PK.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PM.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/PU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/PU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/QA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/QA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/RE.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/RE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/RO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/RO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/RP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/RP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/RQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/RQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/RW.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/RW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SB.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SB.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SC.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SH.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SM.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SN.dat		Dropped



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ST.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ST.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SW.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SZ.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/SoPac.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/SoPac.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TD.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TD.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TH.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TH.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TK.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TL.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TL.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TN.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TN.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TP.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TP.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TU.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TU.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TW.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/TZ.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/TZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UG.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UG.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UK.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UK_is.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UK_is.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UR__.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UR__.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/US.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/US.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/US_AK.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/US_AK.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/US_HW.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/US_HW.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/US_is.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/US_is.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UV.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UV.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/UY.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/UY.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VC.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VC.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VI.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VM.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VM.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/VT.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/VT.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/WA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/WA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/WF.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/WF.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/WQ.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/WQ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/WS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/WS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/WZ.dat		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/WZ.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/YE.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/YE.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/YO.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/YO.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/YS.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/YS.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ZA.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ZA.index		Dropped
All country abbreviations with .dat extension	JMTK/data/Jmv/MapData/Features/Countries/ZI.dat		Dropped
All country abbreviations with .index	JMTK/data/Jmv/MapData/Features/Countries/ZI.index		Dropped
	JMTK/data/Jmv/MapData/Features/GridLines/		Dropped
	JMTK/data/Jmv/MapData/Features/GridLines/grid.index		Dropped
	JMTK/data/Jmv/MapData/Features/Rivers/		Dropped
	JMTK/data/Jmv/MapData/Features/Rivers/rivers		Dropped
	JMTK/data/Jmv/MapData/Features/Rivers/rivers.index		Dropped
	JMTK/data/Jmv/MapData/Features/Roads/		Dropped
	JMTK/data/Jmv/MapData/Features/Roads/roads		Dropped
	JMTK/data/Jmv/MapData/Features/Roads/roads.index		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/Jmv/MapData/M/		Dropped
	JMTK/data/Jmv/MapData/M/FeaturesLaunch		Dropped
	JMTK/data/Jmv/MapData/M/MapFeatures.xrf		Dropped
	JMTK/data/Jmv/MapData/M/MapProjection.xrf		Dropped
	JMTK/data/Jmv/MapData/M/MapSubFeatures.xrf		Dropped
	JMTK/data/Jmv/MapData/M/MapSubTypes.xrf		Dropped
	JMTK/data/Jmv/MapData/M/MapTypes.xrf		Dropped
	JMTK/data/Jmv/MapData/RasterMaps/		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WDBII/		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WDBII/wdbii10		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WDBII/wdbii10.index		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WDBII/wdbii180		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WDBII/wdbii180.index		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WVS/		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WVS/wvs1		Dropped
	JMTK/data/Jmv/MapData/VectorMaps/WVS/wvs1.index		Dropped
	JMTK/data/Jmv/MapData/maps.dir		Dropped
JMTK client menuing capability	JMTK/data/Menus		
	JMTK/data/Menus/ChartBar		
	JMTK/data/Menus/ChartInset		
	JMTK/data/Jmv/Menus/SystemBar.JMTK		Dropped
	JMTK/data/Profiles		
	JMTK/data/Profiles/LauchDesc.JMTK		
	JMTK/data/Profiles/LaunchList.JMTK		
	JMTK/data/Profiles/Profiles.JMTK		
TacPlot	JMTK/data/System/		
UB file, included due to TacPlot dependency	JMTK/data/System/PairingAtts		
UB file, included due to TacPlot dependency	JMTK/data/System/TrackProgs		
UB file, included due to TacPlot dependency	JMTK/data/System/TrackSymbols		
	JMTK/data/VectorData/		



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/VectorData/defaults/		
	JMTK/data/VectorData/defaults/Colors		
	JMTK/data/VectorData/defaults/scales		
	JMTK/data/Jmv/VectorData/defaults/Default.DFL		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.DNC		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.DTED		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.DTP		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.UVM		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.VMP		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.VTD		Dropped
	JMTK/data/Jmv/VectorData/defaults/Default.WVP		Dropped
	JMTK/data/VectorData/profiles/		
	JMTK/data/VectorData/profiles/Default.DCW		
	JMTK/data/VectorData/profiles/Default.DFLIP		
	JMTK/data/VectorData/profiles/Default.DNC		
	JMTK/data/VectorData/profiles/Default.DTOP		
	JMTK/data/VectorData/profiles/Default.UVMAP		
	JMTK/data/VectorData/profiles/Default.VMAP		
	JMTK/data/VectorData/profiles/Default.VTD		
DTED_30N_006E-42N_24NE_16Color	JMTK/data/Jmv/VectorData/profiles/DTED_16Color		Dropped
DTED_30N_006E-42N_24NE_180Color	JMTK/data/Jmv/VectorData/profiles/DTED_180Color		Dropped
DTED_30N_006E-42N_24NE_64Color	JMTK/data/Jmv/VectorData/profiles/DTED_64Color		Dropped
	JMTK/data/Jmv/VectorData/profiles/dnc.good		Dropped
	JMTK/data/Jmv/VectorData/tables/		Dropped
	JMTK/data/Jmv/VectorData/tables/AttValues.DNC		Dropped
	JMTK/data/Jmv/VectorData/tables/AttValue.DTED		Dropped
	JMTK/data/Jmv/VectorData/tables/FeatureAtt.DNC		Dropped
	JMTK/data/Jmv/VectorData/tables/FeatureAtt.DTED		Dropped
	JMTK/data/Jmv/VectorData/tables/FeatureNames.DNC		Dropped
	JMTK/data/Jmv/VectorData/tables/FeaturesName.DTED		Dropped
Motif default resource files	JMTK/data/app-defaults/		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/app-defaults/BasicEnvironment		
	JMTK/data/app-defaults/ColorBox		
	JMTK/data/app-defaults/ColorTest		
	JMTK/data/app-defaults/Contour		
	JMTK/data/app-defaults/CustomHistory		
	JMTK/data/app-defaults/Dashedline		
	JMTK/data/app-defaults/Datum_Translation		
	JMTK/data/app-defaults/DotDashed		
	JMTK/data/app-defaults/Dotted		
	JMTK/data/app-defaults/DoubleDash		
	JMTK/data/app-defaults/Fill25		
	JMTK/data/app-defaults/Fill50		
	JMTK/data/app-defaults/Fill75		
	JMTK/data/app-defaults/FillHorLines		
	JMTK/data/app-defaults/FillNegSlope		
	JMTK/data/app-defaults/FillPosSlope		
	JMTK/data/app-defaults/FillSolid		
	JMTK/data/app-defaults/FillTransparent		
	JMTK/data/app-defaults/FillVerLines		
	JMTK/data/app-defaults/JustCenter		
	JMTK/data/app-defaults/JustLeft		
	JMTK/data/app-defaults/JustRight		
	JMTK/data/app-defaults/LineWidth0		
	JMTK/data/app-defaults/LineWidth1		
	JMTK/data/app-defaults/LineWidth2		
	JMTK/data/app-defaults/LineWidth3		
	JMTK/data/app-defaults/LongDashes		
	JMTK/data/app-defaults/Los		
	JMTK/data/app-defaults/MapEditor		
	JMTK/data/app-defaults/MapSelect		
	JMTK/data/app-defaults/Profile		
	JMTK/data/app-defaults/Sample		
	JMTK/data/app-defaults/SolidLine		
	JMTK/data/app-defaults/StyleColdFront		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/app-defaults/StyleNone		
	JMTK/data/app-defaults/StyleNormal		
	JMTK/data/app-defaults/StyleOccludedFront		
	JMTK/data/app-defaults/StylePlannedFLET		
	JMTK/data/app-defaults/StylePlannedFLOT		
	JMTK/data/app-defaults/StylePresentFLET		
	JMTK/data/app-defaults/StylePresentFLOT		
	JMTK/data/app-defaults/StyleStationaryFront		
	JMTK/data/app-defaults/StyleWarmFront		
	JMTK/data/app-defaults/TrackMan		
	JMTK/data/app-defaults/VEDEdit		
	JMTK/data/app-defaults/VEDLoad		
	JMTK/data/app-defaults/VEDMgr		
	JMTK/data/app-defaults/VPFEdit		
JMTK overlay primitive templates	JMTK/data/app-defaults/bitmaps/		
	JMTK/data/app-defaults/bitmaps/area_style_1.xbm		
	JMTK/data/app-defaults/bitmaps/area_style_2.xbm		
	JMTK/data/app-defaults/bitmaps/area_style_3.xbm		
	JMTK/data/app-defaults/bitmaps/area_style_4.xbm		
	JMTK/data/app-defaults/bitmaps/area_style_5.xbm		
	JMTK/data/app-defaults/bitmaps/area_style_6.xbm		
	JMTK/data/app-defaults/bitmaps/blank.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_1.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_2.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_3.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_4.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_5.xbm		
	JMTK/data/app-defaults/bitmaps/line_style_6.xbm		
	JMTK/data/app-defaults/bitmaps/point_symbol_1.xbm		
	JMTK/data/app-defaults/bitmaps/point_symbol_2.xbm		
	JMTK/data/app-defaults/bitmaps/point_symbol_3.xbm		
	JMTK/data/app-defaults/bitmaps/point_symbol_4.xbm		
	JMTK/data/app-defaults/bitmaps/point_symbol_5.xbm		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/app-defaults/bitmaps/point_symbol_6.xbm		
	JMTK/data/app-defaults/bitmaps/style21.xbm		
	JMTK/data/app-defaults/bitmaps/style22.xbm		
	JMTK/data/app-defaults/bitmaps/style23.xbm		
	JMTK/data/app-defaults/bitmaps/style24.xbm		
	JMTK/data/app-defaults/bitmaps/style25.xbm		
	JMTK/data/app-defaults/bitmaps/style26.xbm		
	JMTK/data/Jmv/app-defaults/CDMaps		Dropped
	JMTK/data/Jmv/app-defaults/Wizard		Dropped
	JMTK/data/Jmv/app-defaults/WizardXm		Dropped
	JMTK/data/Jmv/app-defaults/WizardXm.wizard		Dropped
JMTK default symbology	JMTK/data/fonts/		
	JMTK/data/fonts/6x9.pcf		
	JMTK/data/fonts/APP6-51.pcf		
	JMTK/data/fonts/Airlines.pcf		
	JMTK/data/fonts/LargeQ21.pcf		
	JMTK/data/fonts/SmallQ21.pcf		
	JMTK/data/fonts/VPF.pcf		
	JMTK/data/fonts/chart-13.pcf		
	JMTK/data/fonts/chart-13b.pcf		
	JMTK/data/fonts/chart-21.pcf		
	JMTK/data/fonts/chart-21b.pcf		
	JMTK/data/fonts/chart-31.pcf		
	JMTK/data/fonts/chart-31b.pcf		
	JMTK/data/fonts/chart-41.pcf		
	JMTK/data/fonts/chart-41b.pcf		
	JMTK/data/fonts/chart-51.pcf		
	JMTK/data/fonts/chart-51b.pcf		
	JMTK/data/fonts/cour2B18.pcf		
	JMTK/data/fonts/courB08.pcf		
	JMTK/data/fonts/courB10.pcf		
	JMTK/data/fonts/courB12.pcf		
	JMTK/data/fonts/courB14.pcf		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/fonts/courB18.pcf		
	JMTK/data/fonts/courB24.pcf		
	JMTK/data/fonts/courBO08.pcf		
	JMTK/data/fonts/courBO10.pcf		
	JMTK/data/fonts/courBO12.pcf		
	JMTK/data/fonts/courBO14.pcf		
	JMTK/data/fonts/courBO18.pcf		
	JMTK/data/fonts/courBO24.pcf		
	JMTK/data/fonts/courO08.pcf		
	JMTK/data/fonts/courO10.pcf		
	JMTK/data/fonts/courO12.pcf		
	JMTK/data/fonts/courO14.pcf		
	JMTK/data/fonts/courO18.pcf		
	JMTK/data/fonts/courO24.pcf		
	JMTK/data/fonts/courR08.pcf		
	JMTK/data/fonts/courR10.pcf		
	JMTK/data/fonts/courR12.pcf		
	JMTK/data/fonts/courR14.pcf		
	JMTK/data/fonts/courR18.pcf		
	JMTK/data/fonts/courR24.pcf		
	JMTK/data/fonts/fonts.alias		
	JMTK/data/fonts/fonts.dir		
	JMTK/data/fonts/icons.pcf		
	JMTK/data/fonts/motifsym.pcf		
	JMTK/data/fonts/newicons.pcf		
	JMTK/data/fonts/symbols.pcf		
	JMTK/data/fonts/syms.pcf		
	JMTK/data/fonts/vidsicons.pcf		
	JMTK/data/fonts/visix.pcf		
	JMTK/data/fonts/visix2.pcf		
	JMTK/data/fonts/vpf_pt_sym.pcf		
	JMTK/data/fonts/vtsingle.pcf		
	JMTK/data/fonts/z10x20.pcf		
	JMTK/data/fonts/z12x24.pcf		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/fonts/z5x8.pcf		
	JMTK/data/fonts/z6x10.pcf		
	JMTK/data/fonts/z6x12.pcf		
	JMTK/data/fonts/z6x13.pcf		
	JMTK/data/fonts/z6x13B.pcf		
	JMTK/data/fonts/z6x9.pcf		
	JMTK/data/fonts/z7x13.pcf		
	JMTK/data/fonts/z7x13B.pcf		
	JMTK/data/fonts/z7x14.pcf		
	JMTK/data/fonts/z7x14rk.pcf		
	JMTK/data/fonts/z8x13.pcf		
	JMTK/data/fonts/z8x13B.pcf		
	JMTK/data/fonts/z8x16.pcf		
	JMTK/data/fonts/z8x16rk.pcf		
	JMTK/data/fonts/z9x15.pcf		
	JMTK/data/fonts/z9x15rk.pcf		
	JMTK/data/fonts/zQ21.pcf		
	JMTK/data/fonts/zcourB08.pcf		
	JMTK/data/fonts/zcourB10.pcf		
	JMTK/data/fonts/zcourB12.pcf		
	JMTK/data/fonts/zcourB14.pcf		
	JMTK/data/fonts/zcourB18.pcf		
	JMTK/data/fonts/zcourB24.pcf		
	JMTK/data/fonts/zcourBO08.pcf		
	JMTK/data/fonts/zcourBO10.pcf		
	JMTK/data/fonts/zcourBO12.pcf		
	JMTK/data/fonts/zcourBO14.pcf		
	JMTK/data/fonts/zcourBO18.pcf		
	JMTK/data/fonts/zcourBO24.pcf		
	JMTK/data/fonts/zcourO08.pcf		
	JMTK/data/fonts/zcourO10.pcf		
	JMTK/data/fonts/zcourO12.pcf		
	JMTK/data/fonts/zcourO14.pcf		
	JMTK/data/fonts/zcourO18.pcf		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/data/fonts/zcourO24.pcf		
	JMTK/data/fonts/zcourR08.pcf		
	JMTK/data/fonts/zcourR10.pcf		
	JMTK/data/fonts/zcourR12.pcf		
	JMTK/data/fonts/zcourR14.pcf		
	JMTK/data/fonts/zcourR18.pcf		
	JMTK/data/fonts/zcourR24.pcf		
	JMTK/data/fonts/zcursor.pcf		
	JMTK/data/fonts/zicons.pcf		
	JMTK/data/fonts/zserif10.pcf		
	JMTK/data/fonts/zserfi12.pcf		
	JMTK/data/fonts/zsymbols.pcf		
	JMTK/data/fonts/zvidsicons.pcf		
	JMTK/data/fonts/zvtsingle.pcf		
JMTK development include files	JMTK/include/		
JMTK utilities	JMTK/include/JMU/		
	JMTK/include/JMU/NormDefs.h		
	JMTK/include/JMU/Types.h		
JMTK visualization headers	JMTK/include/JMV/		
DMA API name translations to legacy	JMTK/include/JMV/JMV.h		
JMTK map product load and unload APIs	JMTK/include/JMV/Load.h		
Visual public legacy APIs	JMTK/include/M/		
	JMTK/include/M/Alloc.h		
	JMTK/include/M/ChartCxt.h		
	JMTK/include/M/GenInt.h		
	JMTK/include/M/Genconst.h		
	JMTK/include/M/Generror.h		
	JMTK/include/M/Genlib.h		
	JMTK/include/M/Gentypes.h		
	JMTK/include/M/MapData.h		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/include/M/MapRecall.h		
	JMTK/include/M/MapRecallCol.h		
	JMTK/include/M/MapRecallCxt.h		
	JMTK/include/M/MapRecallRec.h		
	JMTK/include/M/MapRecallRow.h		
	JMTK/include/M/MapUtils.h		
	JMTK/include/M/Mconst.h		
	JMTK/include/M/Merror.h		
	JMTK/include/M/Mlib.h		
	JMTK/include/M/Mtypes.h		
	JMTK/include/M/Mu.h		
	JMTK/include/M/MuError.h		
	JMTK/include/M/Mulnit.h		
	JMTK/include/M/MuUnits.h		
	JMTK/include/M/Qualifiers.h		
	JMTK/include/M/Symbols.h		
	JMTK/include/M/Types.h		
	JMTK/include/M/VectorProduct.h		
	JMTK/include/M/extern.h		
Visual legacy private support	JMTK/include/Z/		
	JMTK/include/Z/XeList.h		
	JMTK/include/Z/Zlib.h		
	JMTK/include/Z/ctype.h		
	JMTK/include/Z/math.h		
	JMTK/include/Z/stdio.h		
	JMTK/include/Z/stdlib.h		
	JMTK/include/Z/types.h		
	JMTK/include/Z/unistd.h		
Visual legacy private support	JMTK/include/Zmu/		
	JMTK/include/Zmu/Row.h		
	JMTK/include/Zmu/SortList.h		
	JMTK/include/ZmuZum.h		



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/include/Jmv/Z/ChannelIO.h		Dropped
	JMTK/include/Jmv/Z/ChannelOP.h		Dropped
	JMTK/include/Jmv/Z/Math.h		Dropped
	JMTK/include/Jmv/Z/MathP.h		Dropped
	JMTK/include/Jmv/Z/Modem.h		Dropped
	JMTK/include/Jmv/Z/Msgid.h		Dropped
	JMTK/include/Jmv/Z/Prt.h		Dropped
	JMTK/include/Jmv/Z/Services.h		Dropped
	JMTK/include/Jmv/Z/ServicesP.h		Dropped
	JMTK/include/Jmv/Z/Tty.h		Dropped
	JMTK/include/Jmv/Z/TtyP.h		Dropped
	JMTK/include/Jmv/Z/Ttydefs.h		Dropped
	JMTK/include/Jmv/Z/Ttys.h		Dropped
	JMTK/include/Jmv/Z/TtysP.h		Dropped
	JMTK/include/Jmv/Z/Z.h		Dropped
	JMTK/include/Jmv/Z/ZlibErrors.h		Dropped
	JMTK/include/Jmv/Z/ZlibP.h		Dropped
	JMTK/include/Jmv/Z/ZxBuffer.h		Dropped
	JMTK/include/Jmv/Z/ZxDeviceIO.h		Dropped
	JMTK/include/Jmv/Z/ZxDirectory.h		Dropped
	JMTK/include/Jmv/Z/ZxFiles.h		Dropped
	JMTK/include/Jmv/Z/ZxGetMapPath.h		Dropped
	JMTK/include/Jmv/Z/.ZxIPCh		Dropped
	JMTK/include/Jmv/Z/ZxMath.h		Dropped
	JMTK/include/Jmv/Z/ZxMemory.h		Dropped
	JMTK/include/Jmv/Z/ZxMntent.h		Dropped
	JMTK/include/Jmv/Z/ZxProcesses.h		Dropped
	JMTK/include/Jmv/Z/ZxSignals.h		Dropped
	JMTK/include/Jmv/Z/ZxStrings.h		Dropped
	JMTK/include/Jmv/Z/ZxSysTables.h		Dropped
	JMTK/include/Jmv/Z/ZxTime.h		Dropped
	JMTK/include/Jmv/Z/assert.h		Dropped
	JMTK/include/Jmv/Z/dirent.h		Dropped
	JMTK/include/Jmv/Z/errno.h		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/include/Jmv/Z/fcntl.h		Dropped
	JMTK/include/Jmv/Z/file.h		Dropped
	JMTK/include/Jmv/Z/filio.h		Dropped
	JMTK/include/Jmv/Z/if.h		Dropped
	JMTK/include/Jmv/Z/in.h		Dropped
	JMTK/include/Jmv/Z/inet.h		Dropped
	JMTK/include/Jmv/Z/iocom.h		Dropped
	JMTK/include/Jmv/Z/ioctl.h		Dropped
	JMTK/include/Jmv/Z/ipc.h		Dropped
	JMTK/include/Jmv/Z/limits.h		Dropped
	JMTK/include/Jmv/Z/locale.h		Dropped
	JMTK/include/Jmv/Z/malloc.h		Dropped
	JMTK/include/Jmv/Z/memory.h		Dropped
	JMTK/include/Jmv/Z/mman.h		Dropped
	JMTK/include/Jmv/Z/mntent.h		Dropped
	JMTK/include/Jmv/Z/modem.h		Dropped
	JMTK/include/Jmv/Z/msg.h		Dropped
	JMTK/include/Jmv/Z/netdb.h		Dropped
	JMTK/include/Jmv/Z/param.h		Dropped
	JMTK/include/Jmv/Z/poll.h		Dropped
	JMTK/include/Jmv/Z/pwd.h		Dropped
	JMTK/include/Jmv/Z/regex.h		Dropped
	JMTK/include/Jmv/Z/resource.h		Dropped
	JMTK/include/Jmv/Z/rtprio.h		Dropped
	JMTK/include/Jmv/Z/search.h		Dropped
	JMTK/include/Jmv/Z/select.h		Dropped
	JMTK/include/Jmv/Z/sem.h		Dropped
	JMTK/include/Jmv/Z/setjmp.h		Dropped
	JMTK/include/Jmv/Z/shm.h		Dropped
	JMTK/include/Jmv/Z/signal.h		Dropped
	JMTK/include/Jmv/Z/socket.h		Dropped
	JMTK/include/Jmv/Z/stat.h		Dropped
	JMTK/include/Jmv/Z/stdarg.h		Dropped
	JMTK/include/Jmv/Z/string.h		Dropped

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/include/Jmv/Z/strings.h		Dropped
	JMTK/include/Jmv/Z/strredir.h		Dropped
	JMTK/include/Jmv/Z/swap.h		Dropped
	JMTK/include/Jmv/Z/symlink.h		Dropped
	JMTK/include/Jmv/Z/syslog.h		Dropped
	JMTK/include/Jmv/Z/termio.h		Dropped
	JMTK/include/Jmv/Z/termios.h		Dropped
	JMTK/include/Jmv/Z/termiox.h		Dropped
	JMTK/include/Jmv/Z/time.h		Dropped
	JMTK/include/Jmv/Z/times.h		Dropped
	JMTK/include/Jmv/Z/uio.h		Dropped
	JMTK/include/Jmv/Z/un.h		Dropped
	JMTK/include/Jmv/Z/utime.h		Dropped
	JMTK/include/Jmv/Z/utsname.h		Dropped
	JMTK/include/Jmv/Z/values.h		Dropped
	JMTK/include/Jmv/Z/vfs.h		Dropped
	JMTK/include/Jmv/Z/wait.h		Dropped
JMTK development libraries	JMTK/lib/		
All visual API objects	JMTK/lib/libJMTK.a		
	JMTK/man/		
	JMTK/man/man1/		
man page has not yet been developed	JMTK/man/man1/Cartographer.1	UD	
	JMTK/man/man1/CenterWidth.1	UD	
	JMTK/man/man1/ChartInset.1	UD	
	JMTK/man/man1/DMADraw.1	UD	
	JMTK/man/man1/DMALoad.1	UD	
	JMTK/man/man1/DMASpatial.1	UD	
	JMTK/man/man1/DestroyChart.1	UD	
	JMTK/man/man1/DrawRaster.1	UD	
	JMTK/man/man1/DrawVector.1	UD	
	JMTK/man/man1/JMTKChart.1	UD	
	JMTK/man/man1/KillChart.1	UD	

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man1/KillJMTK.1	UD	
	JMTK/man/man1/LoadDTED.1	UD	
	JMTK/man/man1/LoadRaster.1	UD	
	JMTK/man/man1/MapColorCtl.1	UD	
	JMTK/man/man1/MapControl.1	UD	
	JMTK/man/man1/MapIntensity.1	UD	
	JMTK/man/man1/MapLoad.1	UD	
	JMTK/man/man1/Overlays.1	UD	
	JMTK/man/man1/Pimtracks.1	UD	
	JMTK/man/man1/RPFDRAW.1	UD	
	JMTK/man/man1/RPFLoad.1	UD	
	JMTK/man/man1/RUN_JMTK_ChartInset1.1	UD	
	JMTK/man/man1/RUN_JMTK_DEMO.1	UD	
	JMTK/man/man1/RUN_JMTK_MENU.1	UD	
	JMTK/man/man1/RunJMTK.1	UD	
	JMTK/man/man1/TacPlot.1	UD	
	JMTK/man/man1/TestPolyline.1	UD	
	JMTK/man/man1/VEDEdit.1	UD	
	JMTK/man/man1/VEDMgr.1	UD	
	JMTK/man/man1/VEDMount.1	UD	
	JMTK/man/man1/mkmapdir.1	UD	
	JMTK/man/man2/		
API man pages	JMTK/man/man3/		
	JMTK/man/man3/Gen-Intro.3		
	JMTK/man/man3/GenAddFeatur.3		
	JMTK/man/man3/GenAddProducts.3		
	JMTK/man/man3/GenAttach.3		
	JMTK/man/man3/GenChangedFeature.3		
	JMTK/man/man3/GenChangedMap.3		
	JMTK/man/man3/GenClip.3		
	JMTK/man/man3/GenCoord.3		
	JMTK/man/man3/GenDetach.3		
	JMTK/man/man3/GenDrawingFeature.3		
	JMTK/man/man3/GenDrawingMap.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/GenEnviron.3		
	JMTK/man/man3/GenError.3		
	JMTK/man/man3/GenFeatDraw.3		
	JMTK/man/man3/GenFeatEntry.3		
	JMTK/man/man3/GenFeatRqst.3		
	JMTK/man/man3/GenFeatVerify.3		
	JMTK/man/man3/GenFlushAllRequests.3		
	JMTK/man/man3/GenGetDisplay.3		
	JMTK/man/man3/GenInt.3		
	JMTK/man/man3/GenMapDraw.3		
	JMTK/man/man3/GenMapEntry.3		
	JMTK/man/man3/GenMapHead.3		
	JMTK/man/man3/GenMapRqtsAtts.3		
	JMTK/man/man3/GenMapVerify.3		
	JMTK/man/man3/GenNextRequest.3		
	JMTK/man/man3/GenPending.3		
	JMTK/man/man3/GenRemoveFeatures.3		
	JMTK/man/man3/GenRemoveProduct.3		
	JMTK/man/man3/GenRequests.3		
	JMTK/man/man3/GenReserveFeature.3		
	JMTK/man/man3/GenReserveMap.3		
	JMTK/man/man3/GenSendError.3		
	JMTK/man/man3/GenServerToSocket.3		
	JMTK/man/man3/GenUpdmask.3		
Not properly implemented?	JMTK/man/man3/JMV_LoadMap.3		
Not properly implemented?	JMTK/man/man3/JMV_UnLoadMap.3		
	JMTK/man/man3/M-Intro.3		
	JMTK/man/man3/MAbortAnimation.3		
	JMTK/man/man3/MAbortMap.3		
	JMTK/man/man3/MAddFeature.3		
	JMTK/man/man3/MAddFeatures.3		
	JMTK/man/man3/MAddInput.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MAddObject.3		
	JMTK/man/man3/MAddPoint.3		
	JMTK/man/man3/MAddProduct.3		
	JMTK/man/man3/MAddProducts.3		
	JMTK/man/man3/MAddTimeOut.3		
	JMTK/man/man3/MAddVolume.3		
	JMTK/man/man3/MApplyAttributes.3		
	JMTK/man/man3/MApplyColor.3		
	JMTK/man/man3/MApplyData.3		
	JMTK/man/man3/MApplyFillOffset.3		
	JMTK/man/man3/MApplyFillType.3		
	JMTK/man/man3/MApplyFillWeight.3		
	JMTK/man/man3/MApplyFont.3		
	JMTK/man/man3/MApplyHiLite.3		
	JMTK/man/man3/MApplyLineStyle.3		
	JMTK/man/man3/MApplyLineType.3		
	JMTK/man/man3/MApplyLineWidth.3		
	JMTK/man/man3/MApplyPickability.3		
	JMTK/man/man3/MApplyPixel.3		
	JMTK/man/man3/MApplyPriority.3		
	JMTK/man/man3/MApplyTemplates.3		
	JMTK/man/man3/MApplyVisibility.3		
	JMTK/man/man3/MAttsMask.3		
	JMTK/man/man3/MBoundary.3		
	JMTK/man/man3/MChangeMap.3		
	JMTK/man/man3/MChangeSymbol.3		
	JMTK/man/man3/MChangeText.3		
	JMTK/man/man3/MChannelToSocket.3		
	JMTK/man/man3/MCloseChannel.3		
	JMTK/man/man3/MColor.3		
	JMTK/man/man3/MCopyTemplate.3		
	JMTK/man/man3/MCreateClass.3		
	JMTK/man/man3/MCreateList.3		
	JMTK/man/man3/MCreateMapWindow.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MCreateObject.3		
	JMTK/man/man3/MCreatePoly.3		
	JMTK/man/man3/MCreateTemplate.3		
	JMTK/man/man3/MCreateText.3		
	JMTK/man/man3/MCreateWindow.3		
Not valid API?	JMTK/man/man3/MDebug.3		
	JMTK/man/man3/MDestroyList.3		
	JMTK/man/man3/MDestroyObject.3		
	JMTK/man/man3/MDestroyWindow.3		
	JMTK/man/man3/MDrawAngleText.3		
	JMTK/man/man3/MDrawArc.3		
	JMTK/man/man3/MDrawBitMap.3		
	JMTK/man/man3/MDrawBox.3		
	JMTK/man/man3/MDrawChar.3		
	JMTK/man/man3/MDrawChar16.3		
	JMTK/man/man3/MDrawCircle.3		
	JMTK/man/man3/MDrawEllipse.3		
	JMTK/man/man3/MDrawLine.3		
	JMTK/man/man3/MDrawPolyline.3		
	JMTK/man/man3/MDrawPolygon.3		
	JMTK/man/man3/MDrawRectangle.3		
	JMTK/man/man3/MDrawSector.3		
	JMTK/man/man3/MDrawSegment.3		
	JMTK/man/man3/MDrawSlash.3		
	JMTK/man/man3/MDrawSymbol.3		
	JMTK/man/man3/MDrawText.3		
	JMTK/man/man3/MDrawWeather.3		
	JMTK/man/man3/MDrawWorld.3		
	JMTK/man/man3/MEnviron.3		
	JMTK/man/man3/MError.3		
	JMTK/man/man3/MEventMask.3		
	JMTK/man/man3/MEvents.3		
	JMTK/man/man3/MExchangeObject.3		
	JMTK/man/man3/MFeatAtts.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MFeatMask.3		
	JMTK/man/man3/MFlush.3		
	JMTK/man/man3/MFlushAllEvents.3		
	JMTK/man/man3/MGetProjectionData.3		
	JMTK/man/man3/MGetSearchPath.3		
	JMTK/man/man3/MGetServiceContext.3		
	JMTK/man/man3/MGetXWindow.3		
	JMTK/man/man3/MKillServer.3		
	JMTK/man/man3/MListFeatures.3		
	JMTK/man/man3/MListMaps.3		
	JMTK/man/man3/MListObjects.3		
	JMTK/man/man3/MMainLoop.3		
	JMTK/man/man3/MMapWindows.3		
	JMTK/man/man3/MMemory.3		
	JMTK/man/man3/MModifyFeature.3		
	JMTK/man/man3/MModifyFeatures.3		
	JMTK/man/man3/MModifyObjects.3		
	JMTK/man/man3/MMoveObject.3		
	JMTK/man/man3/MNextEvent.3		
	JMTK/man/man3/MNoOp.3		
	JMTK/man/man3/MObjAtts.3		
	JMTK/man/man3/MObjMask.3		
	JMTK/man/man3/MObjectData.3		
	JMTK/man/man3/MOpenChannel.3		
	JMTK/man/man3/MPending.3		
	JMTK/man/man3/MPixelsToPosition.3		
	JMTK/man/man3/MPositionToPixels.3		
	JMTK/man/man3/MProdAtts.3		
	JMTK/man/man3/MProjection.3		
	JMTK/man/man3/MPutBackEvent.3		
	JMTK/man/man3/MQueryChannel.3		
	JMTK/man/man3/MQueryFeatures.3		
	JMTK/man/man3/MQueryMap.3		
	JMTK/man/man3/MQueryObject.3		



Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MQueryObjectBBox.3		
	JMTK/man/man3/MQueryWindow.3		
	JMTK/man/man3/MQuickZoom.3		
	JMTK/man/man3/MRecenterMap.3		
	JMTK/man/man3/MReleaseFocus.3		
	JMTK/man/man3/MReleaseWindow.3		
	JMTK/man/man3/MReloadSearchPath.3		
	JMTK/man/man3/MRemoveFeature.3		
	JMTK/man/man3/MRemoveFeatures.3		
	JMTK/man/man3/MRemoveInput.3		
	JMTK/man/man3/MRemoveObject.3		
	JMTK/man/man3/MRemoveProduct.3		
	JMTK/man/man3/MRemoveProducts.3		
	JMTK/man/man3/MRemoveTimeOut.3		
	JMTK/man/man3/MRemoveVolume.3		
	JMTK/man/man3/MReorderMaps.3		
	JMTK/man/man3/MRequestFocus.3		
	JMTK/man/man3/MRestoreCursor.3		
	JMTK/man/man3/MScaleMap.3		
	JMTK/man/man3/MSendEvent.3		
	JMTK/man/man3/MSetAnimateKey.3		
	JMTK/man/man3/MSetAttributes.3		
	JMTK/man/man3/MSetColor.3		
	JMTK/man/man3/MSetCursorAnnotation.3		
	JMTK/man/man3/MSetCusorMode.3		
	JMTK/man/man3/MSetData.3		
	JMTK/man/man3/MSetEventHandler.3		
	JMTK/man/man3/MSetEventMask.3		
	JMTK/man/man3/MSetFillOffset.3		
	JMTK/man/man3/MSetFillType.3		
	JMTK/man/man3/MSetFillWeight.3		
	JMTK/man/man3/MSetFont.3		
	JMTK/man/man3/MSetHiLite.3		
	JMTK/man/man3/MSetHiLiteColor.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MSetIntensity.3		
	JMTK/man/man3/MSetLineStyle.3		
	JMTK/man/man3/MSetLineType.3		
	JMTK/man/man3/MSetLineWidth.3		
	JMTK/man/man3/MSetMapBounds.3		
	JMTK/man/man3/MSetMapColors.3		
	JMTK/man/man3/MSetMapColorsByRGB.3		
	JMTK/man/man3/MSetMapWidth.3		
	JMTK/man/man3/MSetObjectData.3		
	JMTK/man/man3/MSetOffset.3		
	JMTK/man/man3/MSetPickability.3		
	JMTK/man/man3/MSetPixel.3		
	JMTK/man/man3/MSetPriority.3		
	JMTK/man/man3/MSetSegment.3		
	JMTK/man/man3/MSetSymbolSize.3		
	JMTK/man/man3/MSetTemplate.3		
	JMTK/man/man3/MSetVisibility.3		
	JMTK/man/man3/MSync.3		
	JMTK/man/man3/MUnMapWindow.3		
	JMTK/man/man3/MUpdateclass.3		
	JMTK/man/man3/MUseNamedWindow.3		
	JMTK/man/man3/MUseWindow.3		
	JMTK/man/man3/MUseWinMask.3		
	JMTK/man/man3/MWindowAtts.3		
	JMTK/man/man3/Mu-Intro.3		
	JMTK/man/man3/MuAltitude.3		
	JMTK/man/man3/MuCovert.3		
	JMTK/man/man3/MuDistance.3		
	JMTK/man/man3/MuError.3		
	JMTK/man/man3/MuFont.3		
	JMTK/man/man3/MuGeoPosn.3		
	JMTK/man/man3/MuInit.3		
	JMTK/man/man3/MuMgrPosn.3		
	JMTK/man/man3/MuOption.3		

Comments	File Descriptions	UnDevel	Dropped
	3.0.2.2		2.0.0.3
	JMTK/man/man3/MuPosition.3		
	JMTK/man/man3/MuReference.3		
	JMTK/man/man3/MuUnits.3		
	JMTK/man/man3/MuUtmPosn.3		
	JMTK/man/man4/		
	JMTK/man/man5/		
	JMTK/man/man6/		
	JMTK/man/man7/		
	JMTK/man/man8/		
	JMTK/man/man9/		
	JMTK/man/man_macro		
	JMTK/man/mann/		
JMTK LAN map product support files	JMTK/topdata.gobal/mapdata/		
	JMTK/topdata.gobal/mapdata/defaults/		
	JMTK/topdata.gobal/mapdata/defaults/Default.DTED		
	JMTK/topdata.gobal/mapdata/profiles/		
	JMTK/topdata.gobal/mapdata/profiles/Default.DNC		
	JMTK/topdata.gobal/mapdata/profiles/Default.DTED		
	JMTK/topdata.gobal/mapdata/tables/		
	JMTK/topdata.gobal/mapdata/tables/AttValues.DNC		
	JMTK/topdata.gobal/mapdata/tables/FeatureAtts.DNC		
	JMTK/topdata.gobal/mapdata/tables/FeatureAtts.DTED		
	JMTK/topdata.gobal/mapdata/tables/FeatureNames.DNC		
	JMTK/topdata.gobal/mapdata/tables/FeatureNames.DTED		

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## Appendix D. GCCS/JMTK APIs

API Functions Visual Domain	SRS	Comment
Version 3.0.2.2	Paragraph #	
AppendLine	2.10.6	Arbitrary graphic object creation shall be supported through definition of polygon shape by an application-supplied or interactive drawing function.
AppendPolygon	2.10.6	Arbitrary graphic object creation shall be supported through definition of polygon shape by an application-supplied or interactive drawing function.
AppendPolyline	2.10.6	Arbitrary graphic object creation shall be supported through definition of polygon shape by an application-supplied or interactive drawing function.
ClearPointSet	2.11.1	Shall be able to add and remove feature classes.
ComputeScales	3.6.	Shall support projection and datum transformations of all on-line spatial databases.
DegreesToRadians	2.2.	Perform coordinate and data transformations.
FeetToMeters	2.20	Perform coordinate and data transformations.
FormLine	2.10.1.12	Multiple line segment.
FormPolygon	2.10.1.8	Polygons
FormPolyline	2.10.1.1	Polylines
FreePointSet	2.11.1	Shall be able to add and remove feature classes.
GenAddFeatures	2.10.18.3	
GenAddProducts	2.3.5	Be able to create a persistent representation of a map layer that can be:
GenAttach	2.3.	Support and manage map windows and map layers.
GenChangedFeature	2.3.6.4	
GenChangedMap	2.3.	Support and manage map windows and map layers.
GenDetach	2.3.	Support and manage map windows and map layers.
GenDrawingFeature	util	

API Functions Visual Domain	SRS	Comment
GenDrawMap	util	
GenErrorToString	util	
GenFlushAllRequests	2.3.	Support and manage map windows and map layers.
GenGetDisplay	2.3.	Support and manage map windows and map layers.
GenInitialize	2.3.	Support and manage map windows and map layers.
GenNextRequest	util	
GenPending	util	
GenRemoveFeatures	2.11.1.1	Features from a particular data source.
GenRemoveProducts	2.11.1.1	Features from a particular data source.
GenRequestCodeToString	3.1.	
GenReserveFeature	3.1.	
GenReserveMap	util	
GenResetErrorHandler	util	
GenResetIOErrorHandler	util	
GenSendError	util	
GenServerToSocket	util	
GenSetErrorHandler	util	
GenSetIOErrorHandler	util	
InitializePointSet	2.10.1.2	Polymarkers
JMV_LoadMap		Load map
JMV_UnloadMap		Unload map
KilometersToMiles	2.2.	Perform coordinate and data transformations.
KilometersToNautical	2.2.	Perform coordinate and data transformations.
MAbortAnimation	util	
MAbortMap	2.3.	Support and manage map windows and map layers.
MAddFeature	2.10.8.3	Interactively create and position an object.
MAddFeatures	2.10.8.4	Display the points as polygon in main window.
MAddInput	util	
MAddObject	2.3.5	Be able to create a persistent representation of a map layer that can be:

API Functions Visual Domain	SRS	Comment
MAddPoint	2.10.8.3	Interactively create and position an object.
MAddProduct	2.3.5	Be able to create a persistent representation of a map layer that can be:
MAddProducts	2.3.5	Be able to create a persistent representation of a map layer that can be:
MAddTimeOut	util	
MAddVolume	3.4.9	Provide capability to retrieve a list of database file names.
MAlloc	util	
MAllocVerify	util	
MApplyAttributes	2.1.	Shall have the capability to manipulate symbology in map layers.
MApplyColor	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MApplyData	2.1.	Shall have the capability to manipulate symbology in map layers.
MApplyFillOffset	2.4.10	Support filling the frame of a MIL-STD 2525 compliant symbol with:
MApplyFillType	2.4.10	Support filling the frame of a MIL-STD 2525 compliant symbol with:
MApplyFillWeight	2.4.10	Support filling the frame of a MIL-STD 2525 compliant symbol with:
MApplyFont	2.10.10	Text size, font, style, and orientation shall be application-specified.
MApplyHiLite	2.10.11	Shall be able to highlight a symbol or set of symbols by any of the following methods:
MApplyLineStyle	2.10.10	Text size, font, style, and orientation shall be application-specified.
MApplyLineType	2.10.10	Text size, font, style, and orientation shall be application-specified.
MApplyLineWidth	2.10.10	Text size, font, style, and orientation shall be application-specified.
MApplyPickability	2.10.8	Shall support the grouping and ungrouping of graphic objects.
MApplyPixel	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MApplyTemplate	2.10.10	Text size, font, style, and orientation shall be application-specified.
MApplyVisibility	2.1.	Shall have the capability to manipulate symbology in map layers.

API Functions Visual Domain	SRS	Comment
MChangeMap	2.3.	Provide support for map windows and map layers
MChangeText	2.10.1.11	Text strings.
MChannelToSocket	util	
MCloseChannel	util	
MCopyTemplate	2.1.	Have the capability to manipulate symbology in map layers.
MCreateClass	2.3.5	Be able to create a persistent representation of a map layer that can be:
MCreateList	2.3.5	Be able to create a persistent representation of a map layer that can be:
MCreateObject	2.10.6	Arbitrary graphic object creation shall be supported through definition of polygon shape by an application-supplied or interactive drawing function.
MCreatePoly	2.10.1.8	Polygons
MCreateTemplate	2.10.8.3	Interactively create and position an object.
MCreateText	2.10.1.11	Text string.
MCreateWindow	2.3.1	Provide support as to:
MDestroyList	2.3.1.3	Delete
MDestroyObject	2.3.1.3	Delete
MDestroyWindow	2.3.1.3	Delete
MDrawArc	2.10.1.4	Arcs
MDrawBitmap	2.10.4.3	Support the creation of symbols that include multiple grouping of symbols.
MDrawBox	2.10.1.6	Rectangles
MDrawChar	2.10.1.2	Polymarkers
MDrawChar16	2.10.1.2	Polymarkers
MDrawCircle	2.10.1.3	Circles
MDrawEllipse	2.10.1.5	Ellipse
MDrawLine	2.10.1.12	Multiple line segments
MDrawPolygon	2.10.1.8	Polygon
MDrawPolyLine	2.10.1.1	Polylines
MDrawRectangle	2.10.1.6	Rectangle
MDrawSector	2.10.1.2	Polymarkers
MDrawSegment	2.10.1.10	Arrows
MDrawSlash	2.10.1.12	Multiple line segments



API Functions Visual Domain	SRS	Comment
MDrawSymbol	2.10.1.4	Arcs
MDrawText	2.10.1.11	Text string.
MDrawWeather	2.10.6	Arbitrary graphic object creation shall be supported through definition of polygon shape by an application-supplied or interactive drawing function.
MDrawWorld	2.3.1.6	Draw
MErrorToString	util	
MExchangeObject	2.3.5	Be able to create a persistent representation of a map layer that can be:
MetersToFeet	2.2.	Perform coordinate and data transformations.
MetersToNautical	2.2.	Perform coordinate and data transformations.
MFlush	util	
MFlushAllEvents	util	
MFree	util	
MGetProjectionData	3.6.	
MGetSearchPath	util	
MGetXWindow	2.3.	Support and manage map windows and map layers.
MilesToKilometers	2.2.	Perform coordinate and data transformations.
MilesToMeters	2.2.	Perform coordinate and data transformations.
MilesToNautical	2.2.	Perform coordinate and data transformations.
MKillServer	util	
MListFeatures	3.10.15	
MListMaps	3.4.9	
MMainLoop	util	
MMajorCodeToString	util	
MMapWindow	2.3.1.6	Draw
MMinorCodeToString	util	
MModifyFeature	2.11.1.1.7	Delete all objects for the given feature.
MModifyFeatures	2.11.1.1.7	Delete all objects for the given feature.
MModifyObject	2.10	Shall have the capability to manipulate symbology in map layers.
MMoveObject	2.10.7.1	Move an object using the cursor.

API Functions Visual Domain	SRS	Comment
MNextEvent	util	
MNoOp	util	
MOpenChannel	util	
MPending	util	
MPixelsToPosition	2.2.12	Have the ability to change the color of any object in a map layer (excluding imagery or rastermap).
MPositionToPixels	2.2.18	Include the capability for absolute and relative map scaling.
MPutBackEvent	util	
MQueryChannel	3.10.11	The projection type for the selected map.
MQueryFeatures	3.10.11	The projection type for the selected map.
MQueryMap	3.10.9	List of names of the overlays associated with the selected map.
MQueryObject	2.1.	Shall have the capability to manipulate symbology in map layers.
MQueryObjectBBox	2.1.	Shall have the capability to manipulate symbology in map layers.
MQueryWindow	2.10.11	Be able to highlight a symbol or set of symbols by any of the following methods:
MQuickZoom	2.8.1	Interactively allow the picking of displayed feature or screen object.
MReAlloc	util	
MRecenterMap	2.8.3	Interactively create and position an object.
MReleaseFocus	util	
MReleaseWindow	2.3.1.3	Delete.
MReloadSearchPath	3.4.9	
MRemoveFeature	2.11.1	Shall be able to add and remove feature classes.
MRemoveFeatures	2.11.1	Shall be able to add and remove feature classes.
MRemoveInput	util	
MRemoveObject	2.11.1.1	Features from a particular data source.
MRemoveProduct	2.11.1.1	Features from a particular data source.
MRemoveProducts	2.11.1.1	Features from a particular data source.
MRemoveTimeOut	util	
MRemoveVolume	3.4.9	
MReorderMaps	2.3.5.3	Interchanged.

API Functions Visual Domain	SRS	Comment
MRequestFocus	util	
MResetErrorHandler	util	
MResetIntensity	2.3.8.2	Be able to set the background map layer to be an application-supplied neutral toned-color.
MResetIOErrorHandler	util	
MRestoreCursor	util	
MScaleMap	2.8.1	Be able to pan smoothly or in jumps.
MSendEvent	util	
MSetAnimateKeys	util	
MSetAttributes	2.1.	Shall have the capability to manipulate symbology in map layers.
MSetColor	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetCursorAnnotation	2.15	Shall have the capability to perform cursor-oriented queries on map.
MSetCursorMode	2.8.	Support pan, zoom in and out, recentering, and home redisplay of the map window.
MSetData	2.1.	Shall have the capability to manipulate symbology in map layers.
MSetErrorHandler	util	
MSetEventHandler	util	
MSetEventMask	2.24	Each MGC&I display server provide support for multiple clients in the same window and for sharing of overlays among windows on separate client workstations.
MSetFillOffset	2.4.10	Support the filling of a frame of a MIL-STD 2525-compliant symbol with:
MSetFillType	2.4.10	Support the filling of a frame of a MIL-STD 2525-compliant symbol with:
MSetFillWeight	2.4.10	Support the filling of a frame of a MIL-STD 2525-compliant symbol with:
MSetFont	2.10.10	Text size, font, style, and orientation shall be application-specified.
MSetHiLite	2.10.11	Shall be able to highlight a symbol or set of symbols by any of the following methods:
MSetHiLiteColor	2.10.11.2	Color
MSetIntensity	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetIntensityDetails	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.

API Functions Visual Domain	SRS	Comment
MSetIntensityModels	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetIOErrorHandler	util	
MSetLineStyle	2.10.10	Text size, font, style, and orientation shall be application-specified.
MSetLineType	2.10.10	Text size, font, style, and orientation shall be application-specified.
MSetLineWidth	2.10.10	Text size, font, style, and orientation shall be application-specified.
MSetMapBounds	2.8.2	The AOI in which panning can be applied is application-defined or can be unconstrained.
MSetMapColors	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetMapColorsByRBGB	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetMapWidth	2.8.2	The AOI in which panning can be applied is application-defined or can be unconstrained.
MSetObjectData	2.1.	Shall have the capability to manipulate symbology in map layers.
MSetPickability	2.10.8	Support the grouping and ungrouping of graphic objects.
MSetPixel	2.10.7.9	Support the use of fill patterns and color selection of graphic objects.
MSetSegment	2.10.1.1	Polylines
MSetTemplate	util	
MSetVisibility	2.1.	Shall have the capability to manipulate symbology in map layers.
MSync	util	
MUpdateClass	2.10.8	Shall support the grouping and ungrouping of graphic objects.
MUseNamedWindow	2.3.1	Provide support as to:
MUseWindow	2.3.1	Provide support as to:
MuAddFeature	2.3.6.4	Update graphic depictions in a map layer for geographic data sets selected from the SBDMS, and using symbology selected from symbology library.
MuAddProjection	3.4.	
MuAddSubfeature	2.1.	Shall have the capability to manipulate symbology in map layers.

API Functions Visual Domain	SRS	Comment
MuAddSubtype	2.10.8.3	Interactively create and position an object.
MuAddType	3.4.	
MuAppErr	util	
MuAppWarning	util	
MuBearing	3.10.81	The bearing between two positions
MuDistance	3.10.81	The bearing between two positions
MuErrorHandler	util	
MuErrorMsg	util	
MuFeatureToAcronym	util	
MuFeatureToString	util	
MuGeoMgr	2.2.	Perform coordinate and data transformations.
MuGeoToString	2.2.4	Support and manage symbol libraries.
MuGeoUtm	2.2.6	Support the maintenance of a subwindow associated with a map window, which depicts the same contents as that map window at an application-specified magnification.
MuGetPosition	1.3.5.2	
MuGetRangeBearing	2.15.1.6	Interactively draw a polyline and display the distance and bearing.
MuInitialize	util	
MuListFeatures	3.10.15	List of names of features associated with the selected overlay.
MuListProjections	3.10.11	The projection type for the selected map.
MuListSubFeatures	3.10.40	List of the IDs of all the objects in selected feature.
MuListSubTypes	3.10.35	List of names of features associated with the selected overlay.
MuListTypes	3.10.35	List of names of features associated with the selected overlay.
MuMgrGeo	2.2.	Perform coordinate and data transformations.
MuMgrToString	2.2.	Perform coordinate and data transformations.
MuMgrUtm	2.2.	Perform coordinate and data transformations.
MuPointSizeToFontName	2.2.	Perform coordinate and data transformations.

API Functions Visual Domain	SRS	Comment
MuPointSizeToWidth	2.2.	Perform coordinate and data transformations.
MuPositionToString	2.2.	Perform coordinate and data transformations.
MuProjectionToAcronym	2.2.	Perform coordinate and data transformations.
MuProjectionToString	util	
MuQualGetOption	util	
MuQualGetPgmName	util	
MuQualUsage	util	
MuSetErrClass	util	
MuSetErrorList	util	
MuStringToFeature	util	
MuStringToGeo	util	
MuStringToMgr	util	
MuStringToPosition	util	
MuStringToProjection	util	
MuStringToSubFeature	util	
MuStringToSubType	util	
MuStringToType	util	
MuStringToUTM	util	
MuSubFeatureToAcronym	util	
MuSubFeatureToString	util	
MuSubTypeToAcronym	util	
MuSubTypeToString	util	
MuSysError	util	
MuSystemWarning	util	
MuTargetAltitude	3.10.65	Information about a specific link.
MuTargetMaxRange	3.10.65	Information about a specific link.
MuTerminate	util	
MuTypeToAcronym	util	
MuTypeToString	util	
MuUnMapWindow	2.3.1.4	Hide
MuUtmGeo	2.2.10	Convert numeric UTM coordinates to latitude/longitude

API Functions Visual Domain	SRS	Comment
MuUtmMgr	2.2.	Perform coordinate and data transformations.
MuUtmToString	2.2.	Perform coordinate and data transformations.
MuValidGeo	2.2.	Perform coordinate and data transformations.
MuValidMgr	2.2.	Perform coordinate and data transformations.
MuValidUTM	2.2.	Perform coordinate and data transformations.
NauticalToDegrees	2.2.	Perform coordinate and data transformations.
NauticalToKilometers	2.2.	Perform coordinate and data transformations.
NauticalToMeters	2.2.	Perform coordinate and data transformations.
NauticalToMiles	2.2.	Perform coordinate and data transformations.
PixelsToPosition	2.2.	Perform coordinate and data transformations.
PositionToPixels	2.2.	Perform coordinate and data transformations.
RadiansToDegrees	2.2.11	Convert a radian value to decimal degrees.
SetPointInterpolation	1.5.	
API Functions Spatial DataBase Domain	SRS	Comment
JMS_DbListGet		
JMS_DbConnect		
JMS_DBDisconnect		
JMS_ConfigAOISet		
JMS_InventoryGet		
JMS_MetadataGet		
JMS_DataPathnameGet		
JMS_ErrorGet		
JMS_MatrixPut		
JMS_MatrixGet		
API Functions Analysis Domain	SRS	Comment

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<b>API Functions Visual Domain</b>	<b>SRS</b>	<b>Comment</b>



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## Part 7. Version Description for Internet Relay Chat Server (IRCS) Version 1.0.0.2/2.8.21

### 1. System Overview

The “IRCS” segment provides the necessary executable files to run the Unix-based IRC (Internet Relay Chat) server application on HP UNIX workstations. An IRC server application is an on-line Internet/SIPRNET conferencing application which “serves” messages and commands to IRC client applications, allowing messages entered by users via client applications to be viewed by other users within seconds using similar client applications.

#### Version Summary:

- C This release of the IRCS segment includes changes which make this segment a DII COE Component.
- C Script programs were created in the “/bin” directory of this segment which make available system administration functions to authorized users (i.e. users <root>)
- C Included a complete copy of the *irc* software distribution, which includes source code, in the /src sub-directory of this segment in tar/compressed format.
- C Updated hard disk and memory requirement specifications
- C Included on-line irc server/network administration documentation (see the /man sub-directory)

#### Notes:

- C The Internet Relay Chat Server (IRCS) segment requires no additional segments
- C The products contained in the IRCS segment are considered “freeware” and therefore do not require usage licenses. The software contained in this segment can be redistributed or modified according to the terms of the GNU General Public License as published by the Free Software Foundation which can be found in the /lib sub-directory of this segment.

### 2. Referenced Documents

The following documents are referenced in this VDD:

- C “Installation Procedures - Internet Relay Chat Server (IRCS)” delivered with the IRCS 1.0.0.2/2.8.21 segment.

### **3. Version Description**

#### **3.1 Inventory of Materials Released**

Magnetic media: Two 4mm tapes each consisting of a tar of the IRCS segment, version 1.0.0.2/2.8.21 (HP-UX 9.07)

### **4. Installation Instructions**

Reference the “Installation Procedures - Internet Relay Chat Server (IRCS)” delivered with the IRCS 1.0.0.2/2.8.21 segment.

### **5. Known Problems and Errors**

There are no known problems with this segment.

### **6. Release Notes**

The Release Notes delivered with the IRCS 1.0.0.2/2.8.21 segment is contained in its “SegDescrip” directory. The file containing the Release Notes documentation is called “ReleaseNotes.”

## **Part 8. Version Description for IRCC Version 1.0.0.3/1.16**

### **1. System Overview**

The “IRCC” segment provides the necessary executables and library files to run the Unix-based IRC (Internet Relay Chat) client applications on HP UNIX workstations. IRC client applications are Internet/SIPRNET conferencing applications which allow messages entered by a participant as part of a conference to be viewed by other participants in that conference within seconds. Its functionality is similar to that of a telephone conference call.

Version Summary:

- C This release of the IRCC segment includes changes made to the segment to make it a DII COE Component.

Notes:

- C The Internet Relay Chat Client (IRCC) segment requires the TCL segment
- C The products contained in the IRCC segment are considered “freeware” and therefore do not require usage licenses.

### **2. Referenced Documents**

The following documents are referenced in this VDD:

“IRCC Installation Procedures - Quick Guide” delivered with the IRCC 1.0.0.3/1.16 segment.

### **3. Version Description**

#### **3.1 Inventory of Materials Released**

Magnetic media: Two 4mm tapes each consisting of a tar of the IRCC segment, version 1.0.0.3/1.16 (HP-UX 9.07)

### **4. Installation Instructions**

Reference the “IRCC Installation Procedures - Quick Guide” delivered with the IRCC 1.0.0.3/1.16 segment.

### **5. Known Problems and Errors**

There are no known problems with this segment.

## **6. Release Notes**

The Release Notes delivered with the IRCC 1.0.0.3/1.16 segment is contained in its “SegDescrip” directory. The file containing the Release Notes documentation is called “ReleaseNotes.”

## **Part 9. Version Description Document Mail Services (MSVCS) Version 1.0.0.3**

### **1. System Overview**

The MSVCS segment contains the binaries necessary to transfer e-mail from a remote mailhost to a local workstation. Users may configure their Netscape Navigator client applications running on PCs or UNIX workstations to utilize the mail transfer mechanisms provided by this segment in order to read mail from remote mailhost servers.

The “MSVCS” segment provides users with “pop3” access to their e-mail accounts. This segment allows users on networked PCs and workstations which do not mount /usr/mail to read their e-mail on local workstations from a remote mailhost server machine.

#### Version Summary:

- © This release of the MSVCS segment includes changes which make this segment a DII COE Component.
- © Modified PostInstall/DEINSTALL routines; Reduced postInstall and de-install routines to a single program for each.

#### Notes:

- © The Mail Services (MSVCS) segment requires no additional segments
- © The products contained in the MSVCS segment are considered “freeware” and therefore do not require usage licenses. However, a copyright notice for “Pine” products have been included in the /lib sub-directory of this segment. A hard copy of this notice has also been included with this delivery.

### **2. Referenced Documents**

The following documents are referenced in this VDD:

- © “Installation Procedures - Mail Services (MSVCS)” delivered with the MSVCS 1.0.0.3 segment.

### **3. Version Description**

#### **3.1 Inventory of Materials Released**

Magnetic media: Two 4mm tapes each consisting of a tar of the MSVCS segment, version 1.0.0.3 (HU-PX 9.07)

## **4. Installation Instructions**

Reference the “Installation Procedures - Mail Services (MSVCS)” document delivered with the MSVCS 1.0.0.3 segment.

## **5. Known Problems and Errors**

There are no known problems with this segment.

## **6. Release Notes**

The Release Notes delivered with the MSVCS 1.0.0.3 segment is contained in its /SegDescrip directory. The file containing the Release Notes documentation is called “ReleaseNotes.”

## **Part 10. Version Description Document PERL Version 1.0.0.2/perl5.003**

### **1. System Overview**

The “PERL” segment provides the necessary PERL binary executables and library files which are used to execute PERL applications on Sun or HP UNIX workstations. Perl is a powerful scripting language for text processing and systems administration.

Version Summary:

- C Changes made to the segment to make it a DII COE Component.
- C Upgrade to perl version 5.003.
- C Establish symbolic links from both /usr/bin/perl and /usr/local/bin/perl referring to the perl executable.

Notes:

- C The software provided by this segment is considered “freeware” and therefore, does not require a usage license.

### **2. Referenced Documents**

The following documents are referenced in this VDD:

- C “PERL Installation Procedures - Quick Guide” delivered with the PERL 1.0.0.2/perl5.003 segment.

### **3. Version Description**

#### **3.1 Inventory of Materials Released**

Magnetic media: Two 4mm tapes each consisting of a tar of the PERL segment, version 1.0.0.2/perl5.003 (HP-XU 9.07)

### **4. Installation Instructions**

Reference the “PERL Installation Procedures - Quick Guide” delivered with the PERL 1.0.0.2/perl5.003 segment.

### **5. Known Problems and Errors**

There are no known problems with this segment.



## **6. Release Notes**

The Release Notes delivered with the PERL 1.0.0.2/perl5.003 segment is contained in its “SegDescrip” directory. The file containing the Release Notes documentation is called “ReleaseNotes.”

## Part 11. Version Description for COE\_Comp\_Table Version 1.0.0.0

### 1. System Overview

COE\_Comp\_Table is the initial segmentation of a data segment for updating the COE Components Table (/h/COE/data/Comp\_Table). This allows COE Component segments to be added without having to update the COE segment. This segment backs up the current Comp\_Table file to the file 'Comp\_Table.Bak', and then replaces the Comp\_Table file. It then changes the owner and group of the file to COE/COE to reflect the original owner and group for the file.

#### Hardware and Software Requirements

This COE\_Comp\_Table segment requires only that the COE be installed on a Hewlett Packard machine.

#### Installation Instructions

1. Install the segment using ordinary segment installation procedures.

### 2. Version Description

Version Description Document COE\_Comp\_Table 1.0.0.0 for HP-UX, 9 December 1996.

This version of COE\_Comp\_Table updates the table of approved COE Component segments listed in the file /COE/data/Comp\_Table). When this segment has been loaded, the Comp\_Table should be as follows:

```
#=====
#
# This is a table of approved COE
# Component Segments.
# Format is:
# Seg Name:Prefix:Type:Attribute
#
#=====
COE Component Parent:COE:SOFTWARE COE PARENT
Console Window:CSECON:SOFTWARE:COE CHILD
Deadman:CSELCK:SOFTWARE:COE CHILD
X Display Manager:CSEXDM:SOFTWARE:COE CHILD
Password:CSEPAS:SOFTWARE:COE CHILD
Printer:Prt:SOFTWARE:COE CHILD
UB Core:UB:SOFTWARE:COE CHILD
```

Joint Mapping Toolkit:JMTK:SOFTWARE:COE CHILD  
User Management:UserMgmt:SOFTWARE:COE CHILD  
Link-11/Tadil-A Interface:Link11:SOFTWARE:COE CHILD  
Internet Relay Chat Client:IRCC:SOFTWARE:COE CHILD  
Internet Relay Chat Server:IRCS:SOFTWARE:COE CHILD  
Mail Services:MSVCS:SOFTWARE:COE CHILD  
Netscape News Server:NSNEWS:SOFTWARE:COE CHILD  
PERL:perl:SOFTWARE:COE CHILD  
TCL:TCL:SOFTWARE:COE CHILD  
Netscape Web Browser:WEBBr:SOFTWARE:COE CHILD  
Netsite Web Server:WEBSv:SOFTWARE:COE CHILD

**SegDescrip Directory****COE\_Comp\_Table 1.0.0.0 for HP-UX****9 December 1996**

-rwxr-xr-x	1	sysadmin	other	160	Dec	5	13:34	DEINSTALL
-rwxr-xr-x	1	sysadmin	other	221	Dec	5	13:34	PostInstall
-rw-rw-r--	1	sysadmin	other	177	Dec	4	15:54	ReleaseNotes
-rw-rw-r--	1	sysadmin	other	132	Dec	6	10:19	SegInfo
-rw-rw-r--	1	sysadmin	other	99	Dec	5	11:14	SegName
-rw-rw-r--	1	sysadmin	other	16	Dec	6	10:19	VERSION
-rw-rw-rw-	1	root	other	112	Dec	9	13:23	Validated